Xvision Group (UK)

CCTV CATALOGUE **2006**

EDITION 1

www.x-vision.co.uk

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Foreward

by Mike Norcross

Business Development Manager X-vision Group (UK)

X-vision in the News

The X-vision team recently helped the UK's leading news organisation ITV News with a high profile incident that took place on the London Underground that was captured by CCTV. As part of ITV's report a member of the X-vision team was interviewed live on national TV in the UK.

X-vision for Wembley?

In the UK X-vision systems are being used In Government Buildings, Casinos, Prisons, Schools, Universities, Department Stores, Supermarkets and other Commercial Premises. X-vision products are also being considered for use at the new Wembley Stadium when it opens.

X-vision arrives in the Middle East and Africa

Y3K (Middle East) have been appointed exclusive distributor of X-vision products for the Middle East and Africa region. Based in Dubai they will be responsible for sales, distribution and after sales support, and will also be appointing approved dealers in the region.

Welcome to the 2006 edition of the X-vision CCTV Catalogue which showcases the full X-vision CCTV product line up. As one of the UK's leading CCTV brands we offer excellent performance, great value and uncompromised quality. All X-vision products are designed in the UK by our own R&D team and offer unrivalled performance and innovative features.

For 2006 we are launching almost 100 new products including:

New! 550 TVL Super High Resolution Cameras for High Risk Applications
New! Infra Red Night Vision Cameras with Varifocal Lenses
New! LCD CCTV Monitors with class leading 800 TVL resolution
New! Casino/Control Room quality Advanced Professional DVR range

At X-vision we continue to push the boundaries of CCTV by investing in the latest technology ensuring that all X-vision products are class leaders, in addition to this by using the highest quality components we ensure that all X-vision products will offer years of trouble free service, and back this is up by offering a worldwide warranty with all of our products.

X-vision products are available through a network of approved dealers throughout the UK & Europe, and following a record year in sales to countries outside Europe, we are increasing this network to include the Middle East and Africa, making X-vision one of the best known CCTV brands in the world.

We look forward to supplying you with world class CCTV solutions and thank you for choosing X-vision.

Mike Norcross
Business Development Manager
X-vision Group (UK)
Email. miken@x-vision.co.uk

UK HEAD OFFICE AND R&D CENTRE

The X-vision bullet camera range is designed to fit every budget and application from low risk to high risk. Bullet cameras are very versatile and are ideal for use where a discreet low profile camera is required, they are weatherproof without the need for a separate housing and can be used internally as well. With ten different bullet cameras available our bullet camera range is available with a choice of Omnivision 1/3" CMOS image sensors for low risk applications and Panasonic or Sony CCD image sensors for Medium and High Risk applications, most models also have integrated Infra Red LEDs for nightvision capability. All cameras are supplied without cables and power supplies unless otherwise stated, for details of these see pages 45 to 47.

Comparison Table

Model Number	VIS225IR	XV200B	XV300E	VIS304	VIS306	VIS312	VIS349	XV403	XV406	XV412
Picture										
Designed for	Low Risk Applications	Low to Medium Risk Applications	Low to Medium Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications
Weatherproof	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mount	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling
Picture Type	Day/Night (B/W & Colour)	Colour	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)
Image Sensor	Omnivision 1/3" CMOS	Panasonic 1/4" CCD	Panasonic 1/4" CCD	Sony 1/4" Super HAD CCD	Sony 1/4" Super HAD CCD	Sony 1/4" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD
DSP	No	X-vision XC1	X-vision XC1DN	X-vision IXC1DN	X-vision IXC1DN	X-vision IXC1DN	X-vision IXC1DN	X-vision XC1DN	X-vision XC1DN	X-vision XC1DN
Resolution	350 TVL	420 TVL	420 TVL	480 TVL	480 TVL	480 TVL	500 TVL	480 TVL	480 TVL	480 TVL
Low Light Response	0 Lux / 2.0 Lux	0.5 Lux	0 Lux / 0.5 Lux	0 Lux / 0.3 Lux	0 Lux / 0.3 Lux	0 Lux / 0.3 Lux	0 Lux / 0.1 Lux	0 Lux / 0.3 Lux	0 Lux / 0.3 Lux	0 Lux / 0.3 Lux
Infra Red Nightvision range	5 metres	No	10 metres	10 metres	10 metres	10 metres	10 metres	15 metres	20 metres	25 metres
Backlight Compensation	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Range	No	No	No	No	No	No	No	No	No	No
Lens Type	6.0mm	3.6mm	3.6mm	4.0mm	6.0mm	12.0mm	4.0 to 9.0mm	3.6mm	6.0mm	12.0mm
Viewing Angle	43°	60°	60°	50°	33°	17°	30° to 64°	78°	43°	23°
Auto or Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris
Varifocal	No	No	No	No	No	No	Yes	No	No	No
Zoom	No	No	No	No	No	No	No	No	No	No
Motorised Pan/Tilt	No	No	No	No	No	No	No	No	No	No
RS485 Control	No	No	No	No	No	No	No	No	No	No
Video Out	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket
Audio Out	No	No	No	No	No	No	No	No	No	No
Operating Voltage	12V DC 190mA	12V DC 110mA	12V DC 260mA	12V DC 270mA	12V DC 270mA	12V DC 270mA	12V DC 290mA	12V DC 750mA	12V DC 750mA	12V DC 750mA
Warranty	1 Year	1 Year	1 Year	2 Year	2 Year	2 Year	2 Year	1 Year	1 Year	1 Year
Price	$	$	$	$$	$$	$$	$$$	$$$	$$$	$$$

Designed for **Low Risk** Applications

Key Features

CMOS 1/3"

350 TVL

43° Lens

0 Lux

Weather Resistant

VIS225IR

Colour 350 TVL CMOS Bullet Camera with 5m IR Nightvision

The VIS225IR colour bullet camera is designed for low risk applications. It offers good quality 350 TVL images from its CMOS sensor and will provide images in complete darkness up to 5 metres and beyond 5 metres in good light levels above 2.0 lux. The camera can be used internally or externally and can be wall or ceiling mounted.

Features

- Dual mode CMOS sensor provides good quality Colour images in good light conditions of 2.0 lux or above and B/W images in low light and complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 5 metres night vision
- Light emitted from the Infra Red LEDs is not visible to the human eye, however to the camera the light is clearly visible
- Omnivision 1/3" CMOS image sensor for 350 TVL resolution images and 2.0 lux low light sensitivity
- 6.0mm focus free lens for 43° viewing angle
- Economical to run with an operating voltage of 12V DC and power consumption of 190mA
- Durable Corrosion Proof Metal Casing designed for Internal or External use and Wall or Ceiling mounting with the bracket supplied
- 1 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Omnivision 1/3 CMOS
DSP:	No
Resolution:	350 TVL
Lens Viewing Angle:	43°
Infra Red Nightvision:	5 metres
Minimum Illumination:	0 Lux / 2.0 Lux
Audio:	No
Operating Voltage:	12V DC 190mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (ØxL):	60x80mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **Low to Medium Risk** Applications

Key Features

CCD 1/4"

420 TVL

60° Lens

0.5 Lux

Weather Resistant

XV200B

Colour 420 TVL Panasonic 1/4" CCD Bullet Camera

The XV200B colour bullet camera is designed for discreet use in low to medium risk applications. It offers good resolution 420 TVL images from its Panasonic CCD sensor and will provide images in light levels as low as 0.5 lux. The camera can be used internally or externally and can be wall or ceiling mounted, it also features a removable sun/rain sheild.

Features

- High Resolution CCD sensor provides great quality Colour images in light levels of 0.5 lux and above
- Discreet styling for unobtrusive low profile use
- Panasonic 1/4" CCD image sensor for 420 TVL resolution images and 0.5 lux low light sensitivity
- X-vision XC1 Digital Signal Processing (DSP) chip which has been optomised for external viewing and features Automatic Gain Control, Automatic Electronic Iris and Auto White Balance
- 3.6mm focus free lens for 60° viewing angle
- Economical to run with an operating voltage of 12V DC and power consumption of 110mA
- Durable Corrosion Proof Metal Casing designed for Internal or External use and Wall or Ceiling mounting with the bracket supplied
- Supplied with removable sun/rain shield
- 1 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Panasonic 1/4" CCD
DSP:	X-vision XC1
Resolution:	420 TVL
Lens Viewing Angle:	60°
Infra Red Nightvision:	No
Minimum Illumination:	0.5 Lux
Audio:	No
Operating Voltage:	12V DC 110mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (ØxL):	50x25mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **Low to Medium Risk** Applications

Key Features

CCD 1/4"

420 TVL

60° Lens

0 Lux

Weather Resistant

XV300E

Colour 420 TVL Panasonic 1/4" CCD Bullet Camera with 10m IR Nightvision

The XV300E colour bullet camera is designed for low to medium risk applications. It offers good resolution 420 TVL images from its Panasonic CCD sensor and will provide images in complete darkness up to 10 metres and beyond 10 metres in light levels above 0.5 lux. The camera can be used internally or externally and can be wall or ceiling mounted, it also features a removable sun/rain shield.

Features

- Dual mode CCD sensor provides good quality Colour images in low light conditions of 0.5 lux or above and B/W images in low light conditions below 0.5 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 10 metres night vision
- Light emitted from the Infra Red LEDs is not visible to the human eye, however to the camera the light is clearly visible
- Panasonic 1/4" CCD image sensor for 420 TVL resolution images and 0.5 lux low light sensitivity
- X-vision XC1DN Digital Signal Processing (DSP) chip which has been optomised for external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance and Day/Night
- 3.6mm focus free lens for 60° viewing angle

  Economical to run with an operating voltage of 12V DC and power consumption of 260mA
- Durable Corrosion Proof Metal Casing designed for Internal or External use and Wall or Ceiling mounting with the bracket supplied
- 1 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Panasonic 1/4" CCD
DSP:	X-vision XC1DN
Resolution:	420 TVL
Lens Viewing Angle:	60°
Infra Red Nightvision:	10 metres
Minimum Illumination:	0 Lux / 0.5 Lux
Audio:	No
Operating Voltage:	12V DC 260mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD)	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

CCD 1/4"

480 TVL

17 to 50° Lens

0 Lux

Weather Resistant

VIS304/06/12

Colour 480 TVL Sony 1/4" Super HAD CCD Bullet Camera with 10m IR Nightvision

The VIS304/VIS306/VIS312 colour bullet cameras are designed for medium to high risk applications. They offer high resolution 480 TVL images from there Sony 1/4" Super HAD CCD sensors and will provide images in complete darkness up to 10 metres and beyond 10 metres in light levels above 0.3 lux. The camera can be used internally or externally and can be wall or ceiling mounted, it also features a removable sun/rain shield.

Features

- Dual mode CCD sensor provides very good quality Colour images in low light conditions of 0.3 lux or above and B/W images in low light conditions below 0.3 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 10 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Sony 1/4" Super HAD CCD image sensor for 480 TVL resolution images and 0.3 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- The VIS304 features a 4.0mm focus free lens for a 50° viewing angle, the VIS406 features a 6.0mm focus free lens for a 33° viewing angle and the VIS412 features a 12.0mm focus free lens for a 17° viewing angle
- Economical to run with an operating voltage of 12V DC and power consumption of 145mA
- Durable Corrosion Proof Metal Casing designed for Internal or External use and Wall or Ceiling mounting with the bracket supplied
- Supplied with removable sun/rain shield
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/4" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	480 TVL
Lens Viewing Angle:	VIS304: 50°
	VIS306: 33°
	VIS312: 17°
Infra Red Nightvision:	10 metres
Minimum Illumination:	0 Lux / 0.3 Lux
Audio:	No
Operating Voltage:	12V DC 270mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD)	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **High Risk** Applications

Key Features

CCD 1/3"

500 TVL

30 to 64° Lens

0.1 Lux

Weather Resistant

VIS349

Colour 500 TVL Sony 1/3" Super HAD CCD Varifocal Bullet Camera with 10m IR Nightvision

The VIS349 colour bullet camera is designed for high risk applications. It offers very high resolution 500 TVL images from its Sony 1/3" Super HAD CCD sensor and X-vision Pixel+ Varifocal Lens which allows easy selection of the optimum viewing angle required during installation, and will provide images in complete darkness up to 10 metres and beyond 10 metres in light levels above 0.1 lux. The camera can be used internally or externally and can be wall or ceiling mounted, it also features a removable sun/rain shield.

Features

- Dual mode CCD sensor provides very high resolution Colour images in low light conditions of 0.1 lux or above and B/W images in low light conditions below 0.1 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 10 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Sony 1/3" Super HAD CCD image sensor for 500 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- X-vision Pixel+ Varifocal 4.0 to 9.0mm lens with 30° to 64° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation
- Economical to run with an operating voltage of 12V DC and power consumption of 290mA
- Durable Corrosion Proof Metal Casing designed for Internal or External use and Wall or ceiling mounting with the bracket supplied
- Supplied with removable sun/rain shield
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	500 TVL
Lens Viewing Angle:	30 to 64°
Infra Red Nightvision:	5 metres
Minimum Illumination:	0 Lux / 0.1 Lux
Audio:	No
Operating Voltage:	12V DC 290mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD)	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

CCD 1/3"

480 TVL

23 to 78° Lens

0 Lux

Weather Resistant

XV403/06/12

Colour 480 TVL Sony 1/3" Super HAD CCD Bullet Camera with 15 to 25m IR Nightvision

The XV403/XV406/XV412 colour bullet cameras are designed for medium to high risk applications. They offer high resolution 480 TVL images from there Sony 1/3" Super HAD CCD sensor and will provide images in complete darkness up to 15 to 25metres (depending on model) and beyond 15 to 25 metres in light levels above 0.3 lux. The camera can be used internally or externally and can be wall or ceiling mounted, it also features a removable sun/rain shield

Features

- Dual mode CCD sensor provides very good quality Colour images in low light conditions of 0.3 lux or above and B/W images in low light conditions below 0.3 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provides 15 to 25 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Sony 1/3" Super HAD CCD image sensor for 480 TVL resolution images and 0.3 lux low light sensitivity
- X-vision XC1DN Digital Signal Processing (DSP) chip which has been optomised for external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance and Day/Night
- The XV403 features a 3.6mm focus free lens for a 78° viewing angle and up to 15 metres nightvision, the XV406 features a 6.0mm focus free lens for a 43° viewing angle and up to 20 metres nightvision and the XV412 features a 12.0mm focus free lens for a 23° viewing angle and up to 25 metres nightvision
- Economical to run with an operating voltage of 12V DC and power consumption of 750mA
- Durable Corrosion Proof Metal Casing designed for Internal or External use and Wall or Ceiling mounting with the bracket supplied
- Supplied with removable sun/rain shield
- 1 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision XC1DN
Resolution:	480 TVL
Lens Viewing Angle (Infra	XV304: 78° (15m)
Red Nightvision Range):	XV306: 43° (20m)
	XV312: 23° (25m)
Minimum Illumination:	0 Lux / 0.3 Lux
Audio:	No
Operating Voltage:	12V DC 750mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

With over seven different types of dome cameras in the range, X-vision dome cameras are ideal for internal or external use in areas where the camera wil require regular cleaning, is in danger of being tampered with or at risk of being vandalised. Dome cameras are also ideal for use in areas where discreet unobtrusive surveillance is required. Most of our dome cameras feature integrated Infra Red LEDs for night vision capability. All cameras are supplied without cables and power supplies unless otherwise stated, for details of these see pages 45 to 47.

Comparison Table

Model Number	VIS200D	VIS238D	VIS338D	XIR501	XIR504	XIR538	XIR592
Picture							
Designed for	Medium Risk Applications	Medium to High Risk Applications	High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	High Risk Applications	High Risk Applications
Weatherproof	No	No	No	No	Yes	Yes	Yes
Mount	Ceiling	Ceiling	Ceiling	Ceiling	Ceiling	Wall/Ceiling	Wall/Ceiling
Picture Type	Colour	Colour	Colour	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)
Image Sensor	Sony 1/4" CCD	Sony 1/3" Super HAD CCD	Sony 1/3" HQ1 Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD
DSP	X-vision IXC1	X-vision IXC1	X-vision IXC1HQE	X-vision IXC1DN	X-vision IXC1DN	X-vision IXC1DN	X-vision IXC1DN
Resolution	420 TVL	480 TVL	550 TVL	480 TVL	480 TVL	500 TVL	500 TVL
Low Light Response	0.5 Lux	0.1 Lux	0.2 Lux	0 Lux / 0.1 Lux	0 Lux / 0.1 Lux	0 Lux / 0.1 Lux	0 Lux / 0.1 Lux
Infra Red Nightvision range	No	No	No	15 metres	15 metres	20 metres	20 metres
Backlight Compensation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Range	No	No	No	No	No	No	No
Lens Type	3.6mm	3.3 to 12.0mm	3.3 to 12.0mm	3.6mm	3.6mm	3.3 to 12.0mm	9.0 to 22mm
Viewing Angle	60°	23 to 90°	23 to 90°	78°	78°	23 to 90°	12 to 30°
Auto or Electronic Iris	Electronic Iris	Auto Iris	Auto Iris	Electronic Iris	Electronic Iris	Auto Iris	Auto Iris
Varifocal	No	Yes	Yes	No	No	Yes	Yes
Zoom	No	No	No	No	No	No	No
Motorised Pan/Tilt	No	No	No	No	No	No	No
RS485 Control	No	No	No	No	No	No	No
Video Out	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket
Audio Out	Yes	No	No	No	No	No	No
Operating Voltage	12V DC 120mA	12V DC 145mA	12V DC 145mA	12V DC 270mA	12V DC 270mA	12V DC 290mA	12V DC 290mA
Warranty	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years
Price	$	$$	$$$	$$	$$	$$$	$$$

Designed for **Medium Risk** Applications

Key Features

CCD 1/4"

420 TVL

60° Lens

0.5 Lux

X

VIS200D

Colour 420 TVL Sony 1/4" CCD Dome Camera

The VIS200D colour dome camera is designed for discreet use in medium risk applications. It offers good resolution 420 TVL images from its Sony 1/4" CCD sensor and will provide images in light levels as low as 0.5 lux. The camera is designed for internal use and for ceiling mounting.

Features

- High Resolution CCD sensor provides great quality Colour images in light levels of 0.5 lux and above
- Discreet styling for unobtrusive low profile use
- Tamper resistant and easy to clean as all moving parts are behind the dome cover
- Sony 1/4" CCD image sensor for 420 TVL resolution images and 0.5 lux low light sensitivity
- X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Zero Colour Rolling
- 3.6mm focus free lens for 60° viewing angle
- Designed for internal use and ceiling mounting
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/4" CCD
DSP:	X-vision IXC1
Resolution:	420 TVL
Lens Viewing Angle:	60°
Infra Red Nightvision:	No
Minimum Illumination:	0.5 Lux
Audio:	Yes
Operating Voltage:	12V DC 120mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

CCD 1/3"

480 TVL

23 to 90° Lens

0.1 Lux

X

VIS238D

Colour 480 TVL Sony 1/3" Super HAD CCD Varifocal Dome Camera

The VIS238D colour varifocal dome camera is designed for medium to high risk applications. It offers very high resolution 480 TVL images from its Sony 1/3" Super HAD CCD sensor and X-vision Pixel+ Varifocal lens which allows easy selection of the optimum viewing angle required during installation, and will provide images in light levels as low as 0.1 lux. The camera is designed for internal use and for ceiling mounting.

Features

- Very High Resolution CCD sensor provides great quality Colour images in light levels of 0.1 lux and above
- Discreet styling for unobtrusive low profile use
- Tamper resistant and easy to clean as all moving parts are behind the dome cover
- Sony 1/3" Super HAD CCD image sensor for 480 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Zero Colour Rolling
- X-vision Pixel+ Varifocal 3.3 to 12.0mm Auto Iris lens with 23° to 90° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation
- Designed for internal use and ceiling mounting
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1
Resolution:	480 TVL
Lens Viewing Angle:	23 to 90°
Infra Red Nightvision:	No
Minimum Illumination:	0.1 Lux
Audio:	No
Operating Voltage:	12V DC 145mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **High Risk** Applications

Key Features

CCD 1/3"

550 TVL

23 to 90° Lens

0.2 Lux

X

VIS338D

Colour 550 TVL Sony 1/3" HQ1 Super HAD CCD Varifocal Dome Camera

The VIS338D colour varifocal dome camera is designed for high risk applications. It offers super high resolution 550 TVL images from its Sony 1/3" HQ1 Super HAD CCD sensor and X-vision Pixel+ Varifocal lens which allows easy selection of the optimum viewing angle required during installation, and will provide images in light levels as low as 0.2 lux. The camera is designed for internal use and ceiling mounting.

Features

- Super High Resolution CCD sensor provides great quality Colour images in light levels of 0.2 lux and above
- Discreet styling for unobtrusive low profile use
- Tamper resistant and easy to clean as all moving parts are behind the dome cover
- Sony 1/3" HQ1 Super HAD CCD image sensor for 550 TVL resolution images and 0.2 lux low light sensitivity
- X-vision IXC1HQE Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Zero Colour Rolling
- X-vision Pixel+ Varifocal 3.3 to 12.0mm Auto Iris lens with 23° to 90° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation
- Designed for internal use and ceiling mounting
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/3" HQ1 Super HAD CCD
DSP:	X-vision IXC1HQ
Resolution:	550 TVL
Lens Viewing Angle:	23 to 90°
Infra Red Nightvision:	No
Minimum Illumination:	0.2 Lux
Audio:	No
Operating Voltage:	12V DC 145mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

CCD 1/3"

480 TVL

78° Lens

0 Lux

X

XIR501

Colour 480 TVL Sony 1/3" Super HAD CCD Dome Camera with 15m IR Nightvision

The XIR501 colour varifocal dome camera is designed for medium to high risk applications. It offers very high resolution 480 TVL images from its Sony 1/3" Super HAD CCD sensor and will provide images in complete darkness up to 15 metres and beyond 15 metres in light levels above 0.1 lux. The camera is designed for internal use and ceiling mounting.

Features

- Dual mode Very High Resolution CCD sensor provides very good quality Colour images in low light conditions of 0.1 lux or above and B/W images in low light conditions below 0.1 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 15 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Discreet styling for unobtrusive low profile use
- Tamper resistant and easy to clean as all moving parts are behind the dome cover
- Sony 1/3" Super HAD CCD image sensor for 480 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- 3.6mm focus free lens for a 78° viewing angle
- Designed for internal use and ceiling mounting
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	480 TVL
Lens Viewing Angle:	78°
Infra Red Nightvision:	15 metres
Minimum Illumination:	0.1 Lux
Audio:	No
Operating Voltage:	12V DC 270mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

CCD 1/3"

480 TVL

78° Lens

0 Lux

Weather Resistant

XIR504

Colour 480 TVL Sony 1/3" Super HAD CCD Vandal Resistant Dome Camera with 15m IR Nightvision

The XIR504 colour vandal resistant dome camera is designed for medium to high risk applications and is designed to withstand a blow from a 10 pound sledgehammer. It offers very high resolution 480 TVL images from its Sony 1/3" Super HAD CCD sensor and will provide images in complete darkness up to 15 metres and beyond 15 metres in light levels above 0.1 lux. The camera is designed for internal or external use and ceiling mounting.

Features

- Dual mode Very High Resolution CCD sensor provides very good quality Colour images in low light conditions of 0.1 lux or above and B/W images in low light conditions below 0.1 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 15 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Discreet styling for unobtrusive low profile use
- Tamper resistant and easy to clean as all moving parts are behind the dome cover
- Vandal resistant for use in areas where the camera is vunerable to vandalism, can withstand a blow from a 10 pound sledgehammer
- Sony 1/3" Super HAD CCD image sensor for 480 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- 3.6mm focus free lens for a 78° viewing angle
- Durable Corrosion Proof Metal Casing designed for internal or external use and ceiling mounting
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	480 TVL
Lens Viewing Angle:	78°
Infra Red Nightvision:	15 metres
Minimum Illumination:	0.1 Lux
Audio:	No
Operating Voltage:	12V DC 270mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **High Risk** Applications

Key Features

CCD 1/3"

500 TVL

12 to 90° Lens

0 Lux

Weather Resistant

XIR538/592

Colour 500 TVL Sony 1/3" Super HAD CCD Vandal Resistant Varifocal Dome Camera with 20m IR Nightvision

The XIR538/XIR592 colour vandal resistant varifocal dome cameras are designed for high risk applications and are designed to withstand a blow from a 10 pound sledgehammer. They offer super high resolution 500 TVL images from there Sony 1/3" Super HAD CCD sensors and will provide images in complete darkness up to 20 metres and beyond 20 metres in light levels above 0.1 lux. They are designed for internal or external use and have a 3-axis adjustment so they can be wall or ceiling mounted.

Features

- Dual mode Super High Resolution CCD sensor provides very good quality Colour images in low light conditions of 0.1 lux or above and B/W images in low light conditions below 0.1 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 20 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Discreet styling for unobtrusive low profile use
- Tamper resistant and easy to clean as all moving parts are behind the dome cover
- Vandal resistant for use in areas where the camera is vunerable to vandalism
- Sony 1/3" Super HAD CCD image sensor for 500 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- The XIR538 features an X-vision Pixel+ Varifocal 3.3 to 12.0mm lens with 23° to 90° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation and the XIR592 features an X-vision Pixel+ Varifocal 9.0 to 22.0mm lens with 12° to 30° viewing angle.
- Durable Corrosion Proof Metal Casing designed for Internal or External use and 3-axis adjustment for Wall or Ceiling mounting
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	500 TVL
Lens Viewing Angle:	XIR538: 23 to 90°
	XIR592: 12 to 30°
Infra Red Nightvision:	20 metres
Minimum Illumination:	0.1 Lux
Audio:	No
Operating Voltage:	12V DC 270mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Since launching our first Infra Red camera in the UK six years ago we have made a massive investment in Infra Red technology and the result is the Long Range IR Nightvision Camera range. With a maximum night vision range of 30 to 60 metres and a choice of standard or varifocal lenses they are designed for use in demanding applications. All models feature X-vision long life low power consumption infra red LEDs for guaranteed year round operation. All cameras are supplied without cables and power supplies unless otherwise stated, for details of these see pages 45 to 47.

Comparison Table

Model Number	VIS430R	VIS450R	VIS449XR	VIS492XR
Picture				
Designed for	Medium to High Risk Applications	Medium to High Risk Applications	High Risk Applications	High Risk Applications
Weatherproof	Yes	Yes	Yes	Yes
Mount	Wall	Wall	Wall	Wall
Picture Type	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)
Image Sensor	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Ex View CCD	Sony 1/3" Ex View CCD
DSP	X-vision IXC1DN	X-vision IXC1DN	X-vision IXC1DN	X-vision IXC1DN
Resolution	480 TVL	480 TVL	500 TVL	500 TVL
Low Light Response	0 Lux / 0.1 Lux	0 Lux / 0.1 Lux	0 Lux / 0.05 Lux	0 Lux / 0.05 Lux
Infra Red Nightvision range	30 metres	30 metres	50 metres	50 metres
Backlight Compensation	Yes	Yes	Yes	Yes
Dynamic Range	No	No	No	No
Lens Type	6.0mm	8.0mm	4.0 to 9.0mm	9.0 to 22.0mm
Viewing Angle	43°	35°	30 to 64°	12 to 30°
Auto or Electronic Iris	Electronic Iris	Electronic Iris	Auto iris	Auto iris
Varifocal	No	No	Yes	Yes
Zoom	No	No	No	No
Motorised Pan/Tilt	No	No	No	No
RS485 Control	No	No	No	No
Video Out	BNC Socket	BNC Socket	BNC Socket	BNC Socket
Audio Out	No	No	No	No
Operating Voltage	12V DC 1500mA	12V DC 1500mA	12V DC 1290mA	12V DC 1290mA
Warranty	2 Year	2 Year	2 Year	2 Year
Price	$$	$$	$$$	$$$

Designed for **Medium to High Risk** Applications

Key Features

CCD 1/3"

480 TVL

35 to 43° Lens

0 Lux

Weather Resistant

VIS430R/450R

Colour 480 TVL Sony 1/3" Super HAD CCD Long Rang IR cameras with 30 to 50m Nightvision

The VIS430R/VIS450R colour long range IR cameras are designed for medium to high risk applications. There traditional styling makes them ideal for use in situations where an instant deterrent or heavy duty camera is required and they offer high resolution 480 TVL images from there Sony 1/3" Super HAD CCD sensors and will provide images in complete darkness up to 30 to 50 metres (depending on model) and beyond 30 to 50 metres in light levels above 0.1 lux. The cameras can be used externally and can be wall mounted, they also feature an integrated sun/rain shield

Features

- Dual mode Very High Resolution CCD sensor provides very good quality Colour images in low light conditions of 0.1 lux or above and B/W images in low light conditions below 0.1 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provides 30 to 50 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Traditional styling makes them ideal for use in situations where an instant deterrent or heavy duty camera is required
- Sony 1/3" Super HAD CCD image sensor for 480 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- The VIS430R features a 6.0mm focus free lens for a 43° viewing angle and up to 30 metres night vision and the VIS450R features an 8.0mm focus free lens for a 35° viewing angle and up to 50 metres night vision
- Durable Corrosion Proof Metal Casing designed for External use and Wall mounting with the bracket supplied
- Integrated sun/rain shield
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	480 TVL
Lens Viewing Angle (Infra	VIS430R: 43° (30m)
Red nightvision):	VIS450R: 35° (50m)
Minimum Illumination:	0.1 Lux
Audio:	No
Operating Voltage:	12V DC 1500mA
Suggested Power Supply:	12V DC 3500mA
Mounting:	Wall
Weatherproofing:	Yes
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Designed for **High Risk** Applications

Key Features

CCD 1/3"

500 TVL

12 to 64° Lens

0 Lux

Weather Resistant

VIS449XR/492XR

Colour 500 TVL Sony 1/3" Ex View CCD Long Range Varifocal IR cameras with 60 metres nightvision & cable managed bracket

The VIS449XR/VIS492XR colour long range varifocal IR cameras are designed for high risk applications. There traditional styling makes them ideal for use in situations where an instant deterrent or heavy duty camera is required and they offer super high resolution 500 TVL images from there Sony 1/3" Ex View CCD sensors and X-vision Pixel+ Varifocal Lens which allows easy selection of the optimum viewing angle required during installation, and will provide images in complete darkness up to 60 metres and beyond 60 metres in light levels above 0.05 lux. Designed for internal/external use they can be wall mounted and feature a cable managed bracket and removable sun/rain shield.

Features

- Dual mode Super High Resolution CCD sensor provides very good quality Colour images in low light conditions of 0.05 lux or above and B/W images in low light conditions below 0.05 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode and provide up to 60 metres night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Supplied with a cable managed bracket which hides camera cables from view making the cable tamper resistant and allowing for a much neater installation
- Sony 1/3" Super HAD CCD image sensor for 500 TVL resolution images and 0.05 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- The VIS449XR features an X-vision Pixel+ Varifocal 4.0 to 9.0mm lens with 30° to 64° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation and the XIR592 features an X-vision Pixel+ Varifocal 9.0 to 22.0mm lens with 12° to 30° viewing angle.
- Designed for Internal or External use and Wall mounting with the bracket supplied
- Removable sun/rain shield
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	500 TVL
Lens Viewing Angle:	VIS449XR: 30 to 64°
	VIS449XR: 12 to 30°
Infra Red Nightvision:	60 metres
Minimum Illumination:	0.05 Lux
Audio:	No
Operating Voltage:	12V DC 1290mA
Suggested Power Supply:	12V DC 3500mA
Mounting:	Wall
Weatherproofing:	Yes
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

There are two types of traditional style cameras we are able to offer, All In One, which feature an integrated lens for ease of use and aethestically pleasing styling and Box type, which require separate lenses. Traditional cameras act as an instant deterrent to criminals and are very flexible, which is why they are popular with many professional CCTV installers, they are available in a variety of variations, and with a choice of lenses, brackets, housings & infra red lighting so they can be tailored to meet the exact requirements of the application they are to be used for. All cameras are supplied without cables and power supplies unless otherwise stated, for details of these see pages 45 to 47.

Comparison Table

Model Number	PCC125	PCC338	PCC392	PCC422	PBC200	PCC225 PC225AC	PCC425
Picture							
Designed for	Medium Risk Applications	High Risk Applications	High Risk Applications	High Risk Applications	High Risk Applications	Medium to High Risk Applications	High Risk Applications
Weatherproof	Yes (optional housing required)	Yes (optional housing required)	Yes (optional housing required)	Yes (optional housing required)	Yes (optional housing required)	Yes (optional housing required)	Yes (optional housing required)
Mount	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling
Picture Type	Colour	Colour	Colour	Day/Night (B&W & Colour)	B/W	Colour	Day/Night (B&W & Colour)
Image Sensor	Sony 1/4" CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/4" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" Super HAD CCD	Sony 1/3" HQ1 Super HAD CCD
DSP	X-vision IXC1	X-vision IXC1	X-vision IXC1	X-vision IXC1HQDN	X-vision IXC1DN	X-vision IXC1	X-vision IXC1HQDNE
Resolution	420 TVL	500 TVL	500 TVL	520 TVL	600 TVL	480 TVL	550 TVL
Low Light Response	0.5 Lux	0.1 Lux	0.1 Lux	0.5 Lux	0.05 Lux	0.1 Lux	0.05 Lux
Infra Red Nightvision range	No	No	No	Yes (optional Infra Red lamp required)	Yes (optional Infra Red lamp required)	No	Yes (optional Infra Red lamp required)
Backlight Compensation	Yes	Yes	Yes	Yes (Multizone)	Yes	Yes	Yes
Dynamic Range	No	No	No	Yes	No	No	No
Lens Type	CS Mount (3.6mm lens supplied)	3.3 to 12.0mm	9.0 to 22.0mm	3.9 to 85.8mm	CS Mount	CS Mount	CS Mount
Viewing Angle	Various (60°)	23 to 90°	12 to 30°	2 to 60°	Various	Various	Various
Auto or Electronic Iris	Electronic Iris	Electronic & Auto Iris	Electronic & Auto Iris	Auto Iris	Electronic & Auto Iris	Electronic & Auto Iris	Electronic & Auto Iris
Varifocal	No	Yes	Yes	No	No	No	No
Zoom	No	No	No	Yes	No	No	No
Motorised Pan/Tilt	No	No	No	No	No	No	No
RS485 Control	No	No	No	Yes	No	No	No
Video Out	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket
Audio Out	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket
Operating Voltage	12V DC 150mA	12V DC 220mA	12V DC 220mA	12V DC 350mA	12V DC 190mA	PCC225: 12V DC 220mA PCC225AC: 220-240V AC	12V DC 220mA
Warranty	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year
Price	$	$$	$$	$$$	$$	$$	$$

Designed for **Medium Risk** Applications

Key Features

CCD 1/4"

420 TVL

60° Lens

0.5 Lux

Optional

PCC125

Colour 420 TVL Sony 1/4" CCD All In One Camera with 3.6mm Lens & Bracket

The PCC125 colour All In One camera is designed for use in medium risk applications. Its traditional styling makes it ideal for use in situations where an instant deterrent is required and it offers good resolution 420 TVL images from its Sony 1/4" CCD sensor and will provide images in light levels as low as 0.5 lux. The camera is fitted with a 3.6mm lens and is designed for internal use and wall or ceiling mounting as supplied, the lens can be changed to any CS mount manual or fixed iris lens and a range of weatherproof housings are available for using the cameras externally.

Features

- High Resolution CCD sensor provides great quality Colour images in light levels of 0.5 lux and above
- Traditional styling makes it ideal for use in situations where an instant deterrent is required
- Sony 1/4" CCD image sensor for 420 TVL resolution images and 0.5 lux low light sensitivity
- X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Zero Colour Rolling
- 3.6mm focus free lens for 60° viewing angle which can be replaced with any CS mount manual or fixed iris lens
- Designed for internal use and wall/ceiling mounting as supplied or external use with the addition of a weatherproof housing
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/4" CCD
DSP:	X-vision IXC1
Resolution:	420 TVL
Lens Viewing Angle:	60° or CS mount
Infra Red Nightvision:	No
Minimum Illumination:	0.5 Lux
Audio:	Yes
Operating Voltage:	12V DC 150mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	Optional
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Designed for **High Risk** Applications

Key Features

CCD 1/3"

500 TVL

12 to 90° Lens

0.1 Lux

Optional

PCC338/392

Colour 500 TVL Sony 1/3" Super HAD CCD All In One Cameras with Varifocal Lenses

The PCC338/PCC392 colour All In One cameras are designed for use in high risk applications. There traditional styling makes them ideal for use in situations where an instant deterrent is required and they offer super high resolution 500 TVL images from there Sony 1/3" Super HAD CCD sensors and will provide images in light levels as low as 0.1 lux. They are fitted with X-vision Pixel+ Varifocal Lenses which allow easy selection of the optimum viewing angle required during installation. They are designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing.

Features

- Super High Resolution CCD sensor provides great quality Colour images in light levels of 0.1 lux and above
- Traditional styling makes it ideal for use in situations where an instant deterrent is required
- Sony 1/3" Super HAD CCD image sensor for 500 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Zero Colour Rolling
- The PCC338 features an X-vision Pixel+ Varifocal 3.3 to 12.0mm lens with 23° to 90° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation and the PCC392 features an X-vision Pixel+ Varifocal 9.0 to 22.0mm lens with 12° to 30° viewing angle.
- Designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing.
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1
Resolution:	500 TVL
Lens Viewing Angle:	PCC338: 23 to 90°
	PCC392: 12 to 30°
Infra Red Nightvision:	No
Minimum Illumination:	0.1 Lux
Audio:	Yes
Operating Voltage:	12V DC 220mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	Optional
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Input:	DC Socket

PCC422

Colour 520 TVL 1/4" Super HAD CCD All In One Day/Night Zoom Camera with 352x Zoom Lens

The PCC422 colour All In One Day/Night Zoom camera is designed for high risk applications. Its traditional styling makes it ideal for use in situations where an instant deterrent is required and it offers super high resolution 520 TVL images from its Sony 1/4" Super HAD CCD sensor and X-vision Pixel+ Zoom lens which allows easy selection of the optimum viewing angle required during installation, and will provide images in light levels as low as 0.5 lux. It features the latest X-vision IXC1HQ DSP chip which features super dynamic range so the camera can be used for difficult lighting scenes such as reading a cars numberplate when the headlights are on and Day/Night function for use with Infra Red lighting. It also has Pelco D control for zoom and focus adjustment by a compatible DVR or Camera Controller. It is designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing.

Features

- Dual mode Super High Resolution CCD sensor provides great quality Colour images in low light conditions of 0.5 lux or above and B/W images in low light conditions below 0.5 lux and in complete darkness with the addition of Infra Red lighting
- Ideal for use in difficult lighting scenes such as reading a cars numberplate when the headlights are on
- Sony 1/4" Super HAD CCD image sensor for 520 TVL resolution images and 0.5 lux low light sensitivity
- X-vision IXC1HQ Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Multi Zone Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling, Super Dynamic Range and Day/Night
- X-vision Pixel+ 3.9 to 85.8mm Auto Iris 22x Zoom lens with 2° to 60° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation
- Auto or Manual Focus for maximum flexibility
- 16x Digital Zoom for a maximum of 352x combined optical and digital zoom
- Push button controls on back of camera and on screen display for quick and easy camera setup and lens control
- RS485 (Pelco D protocol) control of Zoom and Focus is possible by any compatible DVR or Camera Controller
- Designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/4" Super HAD CCD
DSP:	X-vision IXC1HQ
Resolution:	520 TVL
Lens Viewing Angle:	2 to 60°
Infra Red Nightvision:	Optional
Minimum Illumination:	0.5 Lux (0 lux with IR)
Audio:	Yes
Operating Voltage:	12V DC 350mA
Suggested Power Supply:	12V DC 1250mA
Mounting:	Wall/Ceiling
Weatherproofing:	Optional
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

PBC200

B/W 600 TVL Sony 1/3" Super HAD CCD Box Camera

The PBC200 B/W Box camera is designed for use in high risk applications. Its traditional styling makes it ideal for use in situations where an instant deterrent is required and it offers excellent super high resolution 600 TVL images from its Sony 1/3" Super HAD CCD sensor and will provide images in light levels as low as 0.05 lux and lower when used with additional Infra Red lighting. The camera can be used with any CS mount manual, fixed or auto iris lens and is designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing.

Features

- Super High Resolution CCD sensor provides excellent quality B/W images in low light conditions of 0.05 lux or above and below 0.05 lux with the addition of Infra Red lighting
- Traditional styling makes it ideal for use in situations where an instant deterrent is required
- Sony 1/3" Super HAD CCD image sensor for 600 TVL resolution images and 0.05 lux low light sensitivity
- X-vision IXC1DN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Day/Night
- Accepts any industry standard CS mount manual, fixed or auto iris lens
- Designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	B/W
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1DN
Resolution:	600 TVL
Lens Viewing Angle:	Various (CS Mount)
Infra Red Nightvision:	Optional
Minimum Illumination:	0.05 Lux (0 lux with IR)
Audio:	Yes
Operating Voltage:	12V DC 190mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	Optional
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

PCC225/225AC

Colour 480 TVL Sony 1/3" Super HAD CCD Box Camera

The PCC225/PCC225AC Box cameras are designed for use in medium to high risk applications. There traditional styling makes them ideal for use in situations where an instant deterrent is required and they offer great high resolution 480 TVL images from there Sony 1/3" Super HAD CCD sensor and will provide images in light levels as low as 0.1 lux. They can be used with any CS mount manual, fixed or auto iris lens and are designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing. The PCC225AC features a built in power supply for connecting the camera directly to 220 to 240V AC.

Features

- High Resolution CCD sensor provides excellent quality colour images in low light conditions of 0.1 lux or above
- Traditional styling makes it ideal for use in situations where an instant deterrent is required
- Sony 1/3" Super HAD CCD image sensor for 480 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Zero Colour Rolling
- Accepts any industry standard CS mount manual, fixed or auto iris lens
- The PCC225 requires 12V DC for operation and the PCC225AC requires 220 to 240V AC for operation
- Designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1
Resolution:	480 TVL
Lens Viewing Angle:	Various (CS Mount)
Infra Red Nightvision:	No
Minimum Illumination:	0.1 Lux
Audio:	Yes
Operating Voltage (PCC225):	12V DC 220mA
Operating Voltage (PCC225AC):	220 to 240V AC
Suggested Power Supply:	12V DC 300mA (PCC225)
Mounting:	Wall/Ceiling
Weatherproofing:	Optional
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

PCC425

Colour Day/Night 550 TVL Sony 1/3" HQ1 Super HAD CCD Box Camera

The PCC425 Colour Day/Night Box camera is designed for use in high risk applications. Its traditional styling makes it ideal for use in situations where an instant deterrent is required and it offers excellent super high resolution 550 TVL images from its Sony 1/3" HQ1 Super HAD CCD sensor and will provide images in light levels as low as 0.05 lux and lower when used with additonal Infra Red lighting. It is designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing.

Features

- Dual mode Super High Resolution CCD sensor provides great quality Colour images in low light conditions of 0.05 lux or above and B/W images in low light conditions below 0.05 lux and in complete darkness with the addition of Infra Red lighting
- Traditional styling makes it ideal for use in situations where an instant deterrent is required
- Sony 1/3" HQ1 Super HAD CCD image sensor for 550 TVL resolution images and 0.05 lux low light sensitivity
- X-vision IXC1HQDNE Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling and Day/Night
- Accepts any industry standard CS mount manual, fixed or auto iris lens
- Designed for internal use as supplied and can be wall or ceiling mounted by adding an internal camera bracket and used externally by adding a weatherproof housing
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/3" HQ1 Super HAD CCD
DSP:	X-vision IXC1HQDNE
Resolution:	550 TVL
Lens Viewing Angle:	Various (CS Mount)
Infra Red Nightvision:	Optional
Minimum Illumination:	0.05 Lux (0 lux with IR)
Audio:	Yes
Operating Voltage:	12V DC 220mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	Optional
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Lenses: A selection of good quality varifocal lenses for use with X-vision traditional box cameras. All X-vision lenses have a 2 Year Manufacturers Warranty

3.5 to 8.0mm Varifocal Manual Iris Lens

The X-vision XL3580M 3.5 to 8.0mm manual iris lens is recommended for use with the PCC125, PBC200, PCC225, PCC225AC, PCC425 and industry standard cameras. It offers good quality imaging in all light conditions

Varifocal adjustment for quick and easy selection of the optimum viewing angle during installation

Viewing angle can be adjusted between 35° and 85° on 1/3" cameras and 26° and 67° on 1/4" cameras

Manual Iris allows manual adjustment of the light level if required

Model: **XL3580M**

2.8 to 12.0mm Varifocal Auto Iris Lens

The X-vision XL0212A 2.8 to 12.0mm auto iris lens is designed for use with the PBC200, PCC225, PCC225AC, PCC425 and industry standard cameras that accept CS mount auto iris lenses. It offers good quality imaging in all light conditions and features an auto iris for optimum picture quality in extreme lighting conditions.

Varifocal adjustment for quick and easy selection of the optimum viewing angle during installation

Viewing angle can be adjusted between 23° and 99° on 1/3" cameras and 17° and 75° on 1/4" cameras

Auto Iris for optimum picture quality in extreme lighting conditions

Model: **XL0212A**

6.0 to 60.0mm Varifocal Auto Iris Lens

The X-vision XL0660A 6.0 to 60.0mm auto iris lens is designed for use with the PBC200, PCC225, PCC225AC, PCC425 and industry standard cameras that accept CS mount auto iris lenses. It offers good quality imaging in all light conditions and features an auto iris for optimum picture quality in extreme lighting conditions.

Varifocal adjustment for quick and easy selection of the optimum viewing angle during installation

Viewing angle can be adjusted between 4° and 43° on 1/3" cameras and 3° and 33° on 1/4" cameras

Auto Iris for optimum picture quality in extreme lighting conditions

Model: **XL0660A**

Camera Controller: For controlling the Zoom & Focus on the PCC422 camera

Push button Keyboard Controller for PCC422

The XSD1DC wired controller connectsto the PCC422's RS485 socket and controls the Zoom and Focus on the camera. Up to 64 cameras can be connected to the controller. Connects using CAT5 cable.

Requires 12V DC 1.25A power supply

Dimensions: 140x95x15mm (WxHxD)

Weight: 0.35Kg

1 Year Manufacturers Warranty

Model: **XSD1DC**

Internal Camera Brackets: A selection of internal brackets for mounting X-vision All In One and Box type traditional cameras.

Clamp style camera mounting bracket

The X-vision WHCL bracket will clamp all X-Vision traditional cameras and industry standard cameras to a shelf or stand, ideal for temporary use or quick installation.

Dimensions: 50x50x135mm (WxHxD)

Weight: 0.1Kg

1 Year Manufacturers Warranty

Model: **WHCL**

Wall/Ceiling camera mounting bracket

The X-vision WH160 bracket allows X-vision traditional cameras and industry standard cameras to be wall or ceiling mounted. It features a unique design that has a hidden tightening facility making the bracket look more aethestically pleasing than other similar brackets.

Dimensions: Ø90x160mm (WxHxD)

Weight: 0.1Kg

1 Year Manufacturers Warranty

Model: **WH160**

External Housings and Brackets: A range of external housings and brackets for X-vision traditional style cameras. Allows all of our traditional style cameras to be used externally.

Weatherproof housing and wall bracket

The X-vision HCW200 weatherproof housing and bracket allows X-vision traditional style and industry standard cameras to be wall mounted externally.

Dimensions: 105x115x330mm (WxHxD)

Weight: 0.83Kg

1 Year Manufacturers Warranty

Model: **HCW200**

Weatherproof housing and wall bracket

The X-vision HCW200CB weatherproof housing and bracket allows X-vision traditional style and industry standard cameras to be ceiling mounted externally.

Dimensions: 105x115x330mm (WxHxD)

Weight: Housing- 0.83Kg
Bracket- 0.8Kg

1 Year Manufacturers Warranty

Model: **HCW200CB**

Professional Extreme Weather housing with built in Heater & Fan and cable managed wall bracket

The X-vision HCW300 allows X-vision traditional style and industry standard cameras to be wall mounted externally in extreme weather conditions. It features a built in fan and heater to prevent damage to the camera in extreme temperatures. To protect the camera cabling the bracket feature cable management so no cables are exposed.

Requires 12V DC 3500mA power supply

Dimensions: 143x115x370mm (WxHxD)

Weight: 1.4Kg

1 Year Manufacturers Warranty

Model: **HCW300**

Infra Red Lamps: A range of high quality Infra Red lamps for use with B/W and Day/Night cameras for nightvision in poor lighting and complete darkness.

10 Metre Infra Red LED lamp

The VIS010IR infra red lamp enables the PCC422, PBC200, PCC425 and industry standard infra red sensitive cameras to see up to 10 metres in complete darkness

Long life Infra Red LEDs for trouble free use

Up to 10 metres range when used with IR sensitive cameras

Integrated bracket for wall/ceiling mounting

Designed for internal or external use

Requires 12V DC 1250mA power supply

Low power consumption

Dimensions: Ø48x60mm (WxHxD)

Weight: 0.17Kg

1 Year Manufacturers Warranty

Model: **VIS010IR**

30 Metre Infra Red LED lamp

The VIS030IR infra red lamp enables the PCC422, PBC200, PCC425 and industry standard infra red sensitive cameras to see up to 30 metres in complete darkness

Long life Infra Red LEDs for trouble free use

Up to 30 metres range when used with IR sensitive cameras

Bracket for wall mounting supplied

Designed for external use

Requires 12V DC 3500mA power supply

Low power consumption

Dimensions: Ø105x185mm (WxHxD)

Weight: 0.82Kg

1 Year Manufacturers Warranty

Model: **VIS030IR**

80 Metre Infra Red LED lamp

The VIS080IR infra red lamp enables the PCC422, PBC200, PCC425 and industry standard infra red sensitive cameras to see up to 80 metres in complete darkness

Long life extra bright 1" SuperLEDs for up to 80 metres range when used with IR sensitive cameras

Bracket for wall mounting supplied

Designed for external use

With built in power supply for connecting the unit to 220 to 240V AC

Dimensions: Ø105x185mm (WxHxD)

Weight: 0.82Kg

1 Year Manufacturers Warranty

Model: **VIS080IR**

X-vision Mini & Covert cameras are available in B/W or Colour versions and are designed to be hidden in a room or office for undetected surveillance, they are fitted with a high resolution pinhole lens which allows the camera to view full images through an aperture as small as 2mm in diameter. Two types are available, Mini, which can be hidden in a suitable location or Covert, which are preinstalled in various everyday items that you would expect to see in a room or office, such as a clock, alarm sensor or smoke alarm. All cameras are supplied without cables and power supplies unless otherwise stated, for details of these see pages 45 to 47.

Comparison Table

Model Number	KCB275P	KCB401P	PC810D	PC811D	PC810	PC811	PC650	PC651	PC600	PC601	PC700	PC701
Picture												
Designed for	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications	Medium to High Risk Applications
Weatherproof	No	No	No	No	No	No	No	No	No	No	No	No
Mount	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Wall/Ceiling	Ceiling	Ceiling	Ceiling	Ceiling	Wall	Wall
Picture Type	B/W	Colour	B/W	Colour	B/W	Colour	B/W	Colour	B/W	Colour	B/W	Colour
Image Sensor	Sony 1/3" CCD	Sony 1/4" CCD	Sony 1/3" CCD	Sony 1/4" CCD	Sony 1/3" CCD	Sony 1/4" CCD	Sony 1/3" CCD	Sony 1/3" Super HAD CCD	Sony 1/3" CCD	Sony 1/4" CCD	Sony 1/3" CCD	Sony 1/4" CCD
DSP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Resolution	480 TVL	420 TVL	480 TVL	420 TVL	480 TVL	420 TVL	480 TVL	480 TVL	480 TVL	420 TVL	480 TVL	420 TVL
Low Light Response	0.3 Lux	0.5 Lux	0.3 Lux	0.5 Lux	0.3 Lux	0.5 Lux	0.3 Lux	0.2 Lux	0.3 Lux	0.5 Lux	0.3 Lux	0.5 Lux
Infra Red Nightvision range	No	No	No	No	No	No	No	No	No	No	No	No
Backlight Compensation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic Range	No	No	No	No	No	No	No	No	No	No	No	No
Lens Type	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole	3.7mm pinhole
Viewing Angle	78°	60°	78°	60°	78°	60°	78°	78°	78°	60°	78°	60°
Auto or Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris	Electronic Iris
Varifocal	No	No	No	No	No	No	No	No	No	No	No	No
Zoom	No	No	No	No	No	No	No	No	No	No	No	No
Motorised Pan/Tilt	No	No	No	No	No	No	No	No	No	No	No	No
RS485 Control	No	No	No	No	No	No	No	No	No	No	No	No
Video Out	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket	BNC Socket
Audio Out	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket	Phono Socket
Operating Voltage	12V DC 110mA	12V DC 120mA	12V DC 110mA	12V DC 120mA	12V DC 180mA	12V DC 190mA	12V DC 110mA	12V DC 145mA	12V DC 110mA	12V DC 120mA	12V DC 110mA	12V DC 120mA
Warranty	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year	2 Year
Price	$	$$	$	$$	$	$$	$	$$	$	$$	$$	$$$

Designed for **Medium to High Risk** Applications

Key Features

- 1/3" CCD (B/W) 1/4" CCD (Colour)
- 480 TVL (B/W) 420 TVL (Colour)
- 78° Lens (B/W) 60° Lens (Colour)
- 0.3 Lux (B/W) 0.5 Lux (Colour)

KCB275P/401P

B/W (Sony 1/3" CCD) & Colour (Sony 1/4" CCD) Mini Cameras

The KCB275P and KCB401P Mini cameras are designed for covert use in medium to high risk applications. They feature a pinhole lens which can see through an aperture as small as 2mm. The KCB275P offers high resolution B/W 480 TVL images from its Sony 1/3" CCD sensor and will provide images in light levels as low as 0.3 lux and the KCB401P offers high resolution Colour 420 TVL images from its Sony 1/4" CCD sensor and will provide images in light levels as low as 0.5 lux. Both are designed for internal use and wall or ceiling mounting and can be used as a covert camera.

Features

- The cameras measure just 36x36mm and are fitted with a pinhole lens which can see out of an aperture as small as 2mm, allowing them to be easily hidden for covert use
- The KCB275P has a Sony 1/3" CCD image sensor for B/W 480 TVL resolution images and 0.3 lux low light sensitivity and the KCB401P has a Sony 1/4" CCD image sensor for Colour 420 TVL resolution images and 0.5 lux low light sensitivity
- Both cameras feature an X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear and Edge Enhancement, the KCB401P also features Zero Colour Rolling
- 3.7mm focus free pinhole lens for 78° viewing angle on the KCB275P and 60° viewing angle on the KCB401P
- Designed for internal use and wall or ceiling mounting
- 2 Year Manufacturers Warranty

Specifications (B/W / Colour)

Picture Type:	B/W / Colour
Image Sensor:	Sony 1/3" CCD / Sony 1/4" CCD
DSP:	X-vision IXC1
Resolution:	480 TVL / 420 TVL
Lens Viewing Angle:	78° / 60°
Infra Red Nightvision:	No
Minimum Illumination:	0.3 lux / 0.5 lux
Audio:	Yes
Operating Voltage:	12V DC 110 / 120mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	37x40x37mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

- 1/3" CCD (B/W) 1/4" CCD (Colour)
- 480 TVL (B/W) 420 TVL (Colour)
- 78° Lens (B/W) 60° Lens (Colour)
- 0.3 Lux (B/W) 0.5 Lux (Colour)

PC810D/811D

B/W (Sony 1/3" CCD) & Colour (Sony 1/4" CCD) 'PIR' Cameras

The PC810D and PC811D 'PIR' cameras are designed for covert use in medium to high risk applications. They look like a standard PIR Alarm Sensor but have a hidden camera in side. The PC810D offers high resolution B/W 480 TVL images from its Sony 1/3" CCD sensor and will provide images in light levels as low as 0.3 lux and the PC811D offers high resolution Colour 420 TVL images from its Sony 1/4" CCD sensor and will provide images in light levels as low as 0.5 lux. Both are designed for internal use and wall or ceiling mounting.

Features

- Designed to look just like a standard PIR Alarm Sensor but fitted with a hidden camera inside for covert viewing.
- The PC810D has a Sony 1/3" CCD image sensor for B/W 480 TVL resolution images and 0.3 lux low light sensitivity and the PC811D has a Sony 1/4" CCD image sensor for Colour 420 TVL resolution images and 0.5 lux low light sensitivity
- Both cameras feature an X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear and Edge Enhancement, the PC811D also features Zero Colour Rolling
- 3.7mm focus free pinhole lens for 78° viewing angle on the PC810D and 60° viewing angle on the PC811D
- Designed for internal use and wall or ceiling mounting
- 2 Year Manufacturers Warranty

Specifications (B/W / Colour)

Picture Type:	B/W / Colour
Image Sensor:	Sony 1/3" CCD / Sony 1/4" CCD
DSP:	X-vision IXC1
Resolution:	480 TVL / 420 TVL
Lens Viewing Angle:	78° / 60°
Infra Red Nightvision:	No
Minimum Illumination:	0.3 lux / 0.5 lux
Audio:	Yes
Operating Voltage:	12V DC 110 / 120mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	70x120x40mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

- 1/3" CCD (B/W) 1/4" CCD (Colour)
- 480 TVL (B/W) 420 TVL (Colour)
- 78° Lens (B/W) 60° Lens (Colour)
- 0.3 Lux (B/W) 0.5 Lux (Colour)

PC810/811

B/W (Sony 1/3" CCD) & Colour (Sony 1/4" CCD) 'Working PIR' Cameras

The PC810 and PC811 'Working PIR' cameras are designed for covert use in medium to high risk applications. They look and operate like a standard PIR Alarm Sensor but have a hidden camera in side. The PC810D offers high resolution B/W 480 TVL images from its Sony 1/3" CCD sensor and will provide images in light levels as low as 0.3 lux and the PC811D offers high resolution Colour 420 TVL images from its Sony 1/4" CCD sensor and will provide images in light levels as low as 0.5 lux. Both are designed for internal use and wall or ceiling mounting.

Features

- Designed to look just like a standard PIR Alarm Sensor but fitted with a hidden camera inside for covert viewing.
- Can be used as a PIR Alarm Sensor with NO and NC outputs and pulse count
- The PC810 has a Sony 1/3" CCD image sensor for B/W 480 TVL resolution images and 0.3 lux low light sensitivity and the PC811 has a Sony 1/4" CCD image sensor for Colour 420 TVL resolution images and 0.5 lux low light sensitivity
- Both cameras feature an X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear and Edge Enhancement, the PC811 also features Zero Colour Rolling
- 3.7mm focus free pinhole lens for 78° viewing angle on the PC810 and 60° viewing angle on the PC811
- Designed for internal use and wall or ceiling mounting
- 2 Year Manufacturers Warranty

Specifications (B/W / Colour)

Picture Type:	B/W / Colour
Image Sensor:	Sony 1/3" CCD / Sony 1/4" CCD
DSP:	X-vision IXC1
Resolution:	480 TVL / 420 TVL
Lens Viewing Angle:	78° / 60°
Infra Red Nightvision:	No
Minimum Illumination:	0.3 lux / 0.5 lux
Audio:	Yes
Operating Voltage:	12V DC 180 / 190mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall/Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	70x120x40mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

- CCD 1/3"
- 480 TVL
- 78° Lens
- 0.3 Lux (B/W) 0.2 Lux (Colour)

PC650/651

B/W (Sony 1/3" CCD) & Colour (Sony 1/3" Super HAD CCD) 'Industrial Smoke Alarm' Cameras

The PC650 and PC651 'Industrial Smoke Alarm' cameras are designed for covert use in medium to high risk applications. They look like a standard Industrial Smoke Alarm but have a hidden camera in side. The PC650 offers high resolution B/W 480 TVL images from its Sony 1/3" CCD sensor and will provide images in light levels as low as 0.3 lux and the PC651 offers high resolution Colour 480 TVL images from its Sony 1/3" Super HAD CCD sensor and will provide images in light levels as low as 0.2 lux. Both are designed for internal use and ceiling mounting.

Features

- Designed to look just like a standard Industrial Smoke Alarm but fitted with a hidden camera inside for covert viewing.
- The PC650 has a Sony 1/3" CCD image sensor for B/W 480 TVL resolution images and 0.3 lux low light sensitivity and the PC651 has a Sony 1/3" Super HAD CCD image sensor for Colour 480 TVL resolution images and 0.2 lux low light sensitivity
- Both cameras feature an X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear and Edge Enhancement, the PC651 also features Zero Colour Rolling
- 3.7mm focus free pinhole lens for 78° viewing angle
- Designed for internal use and ceiling mounting
- 2 Year Manufacturers Warranty

Specifications (B/W / Colour)

Picture Type:	B/W / Colour
Image Sensor:	Sony 1/3" CCD / Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1
Resolution:	480 TVL
Lens Viewing Angle:	78°
Infra Red Nightvision:	No
Minimum Illumination:	0.3 lux / 0.2 lux
Audio:	Yes
Operating Voltage:	12V DC 110 / 145mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	Ø120x60mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

- 1/3" CCD (B/W) 1/4" CCD (Colour)
- 480 TVL (B/W) 420 TVL (Colour)
- 78° Lens (B/W) 60° Lens (Colour)
- 0.3 Lux (B/W) 0.5 Lux (Colour)

PC600

B/W (Sony 1/3" CCD) & Colour (Sony 1/4" CCD) 'Working Smoke Alarm' Cameras

The PC600 and PC601 'Working Smoke Alarm' cameras are designed for covert use in medium to high risk applications. They look and operate like a standard Domestic Smoke Alarm but have a hidden camera inside. The PC600 offers high resolution B/W 480 TVL images from its Sony 1/3" CCD sensor and will provide images in light levels as low as 0.3 lux and the PC601 offers high resolution Colour 420 TVL images from its Sony 1/4" CCD sensor and will provide images in light levels as low as 0.5 lux. Both are designed for internal use and ceiling mounting.

Features

- Designed to look just like a standard Domestic Smoke Alarm but fitted with a hidden camera inside for covert viewing.
- Continues to operate as a working smoke alarm
- The PC600 has a Sony 1/3" CCD image sensor for B/W 480 TVL resolution images and 0.3 lux low light sensitivity and the PC601 has a Sony 1/4" CCD image sensor for Colour 420 TVL resolution images and 0.5 lux low light sensitivity
- Both cameras feature an X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear and Edge Enhancement, the PC601 also features Zero Colour Rolling
- 3.7mm focus free pinhole lens for 78° viewing angle on the PC600 and 60° viewing angle on the PC601
- Designed for internal use and ceiling mounting
- 2 Year Manufacturers Warranty

Specifications (B/W / Colour)

Picture Type:	B/W / Colour
Image Sensor:	Sony 1/3" CCD / Sony 1/4" CCD
DSP:	X-vision IXC1
Resolution:	480 TVL / 420 TVL
Lens Viewing Angle:	78° / 60°
Infra Red Nightvision:	No
Minimum Illumination:	0.3 lux / 0.5 lux
Audio:	Yes
Operating Voltage:	12V DC 110 / 120mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Ceiling
Weatherproofing:	No
Dimensions (WxHxD):	138x42x110mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

Designed for **Medium to High Risk** Applications

Key Features

- 1/3" CCD (B/W) 1/4" CCD (Colour)
- 480 TVL (B/W) 420 TVL (Colour)
- 78° Lens (B/W) 60° Lens (Colour)
- 0.3 Lux (B/W) 0.5 Lux (Colour)

PC700/701

B/W (Sony 1/3" CCD) & Colour (Sony 1/4" CCD) 'Working Wall Clock' Cameras

The PC700 and PC701 'Working Wall Clock' cameras are designed for covert use in medium to high risk applications. They look and operate just like a standard Wall Clock but have a hidden camera inside. The PC700 offers high resolution B/W 480 TVL images from its Sony 1/3" CCD sensor and will provide images in light levels as low as 0.3 lux and the PC701 offers high resolution Colour 420 TVL images from its Sony 1/4" CCD sensor and will provide images in light levels as low as 0.5 lux. Both are designed for internal use and wall mounting.

Features

- Designed to look just like a standard Wall Clock but fitted with a hidden camera inside for covert viewing.
- Continues to operate as a working wall clock
- The PC700 has a Sony 1/3" CCD image sensor for B/W 480 TVL resolution images and 0.3 lux low light sensitivity and the PC701 has a Sony 1/4" CCD image sensor for Colour 420 TVL resolution images and 0.5 lux low light sensitivity
- Both cameras feature an X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear and Edge Enhancement, the PC701 also features Zero Colour Rolling
- 3.7mm focus free pinhole lens for 78° viewing angle on the PC600 and 60° viewing angle on the PC701
- Designed for internal use and wall mounting
- 2 Year Manufacturers Warranty

Specifications

Picture Type:	B/W / Colour
Image Sensor:	Sony 1/3" CCD / Sony 1/4" CCD
DSP:	X-vision IXC1
Resolution:	480 TVL / 420 TVL
Lens Viewing Angle:	78° / 60°
Infra Red Nightvision:	No
Minimum Illumination:	0.3 lux / 0.5 lux
Audio:	Yes
Operating Voltage:	12V DC 110 / 120mA
Suggested Power Supply:	12V DC 300mA
Mounting:	Wall
Weatherproofing:	No
Dimensions (WxHxD):	Ø300x50mm

Connections

Video Output:	BNC Socket
Audio Output:	Phono Socket
Power Input:	DC Socket

The most powerful cameras in the X-vision range, these cameras can be manually or automatically panned, tilted and zoomed to the exact views required. We offer a low profile Vandal Resistant Mini Speed Dome camera which is designed for internal or external use, a powerful 270x zoom Day/Night Speed Dome for high risk applications and the worlds first IR Speed Dome with integrated Infra Red LEDs for nightvision. In addition to the cameras we also offer a full range of brackets and housings for mounting the cameras and a choice of 4 different controllers for controlling and configuring them. All cameras are supplied without cables and power supplies unless otherwise stated, for details of these see pages 45 to 47.

Comparison Table

Model Number	XVISZCAMX	XSD27ZDN2	XSD22ZIR
Picture			
Designed for	High Risk Applications	High Risk Applications	High Risk Applications
Weatherproof	Yes	Yes	Yes
Mount	Wall (optional) / Ceiling (standard)	Wall (standard) / Ceiling (optional)	Wall (standard) / Ceiling (optional)
Picture Type	Colour	Day/Night (B/W & Colour)	Day/Night (B/W & Colour)
Image Sensor	Sony 1/3" Super HAD CCD	Sony 1/4" Super HAD CCD	Sony 1/4" Ex View CCD
DSP	X-vision IXC1	X-vision IXC1HQDN	X-vision IXC1HQDN
Resolution	500 TVL	550 TVL	520 TVL
Low Light Response	0.01 Lux	0.01 Lux	0.002 Lux
Infra Red Nightvision range	No	Yes (optional Infra Red Lamp required)	50 metres
Backlight Compensation	Yes	Yes (Multizone)	Yes (Multizone)
Dynamic Range	No	Yes	Yes
Lens Type	4.0 to 9.0mm	3.25 to 88.0mm	3.95 to 85.8mm
Viewing Angle	30 to 64°	1 to 78°	2 to 60°
Auto or Electronic Iris	Auto Iris	Auto Iris	Auto Iris
Varifocal	Yes	No	No
Zoom	No	Yes	Yes
Motorised Pan/Tilt	Yes	Yes	Yes
RS485 Control	Yes	Yes	Yes
Video Out	BNC Socket	BNC Socket	BNC Socket
Audio Out	No	No	No
Operating Voltage	12V DC 1000mA	12V DC 2000mA	12V DC 3000mA
Warranty	1 Year	1 Year	1 Year
Price	$	$$	$$$

Designed for **High Risk** Applications

Key Features

CCD 1/3"

500 TVL

30-64° Lens

0.1 Lux

Weather Resistant

XVISZCAMX

Colour 500 TVL Sony 1/3" Super HAD CCD Vandal Resistant Mini Speed Dome

The XVISZCAMX Colour Vandal Resistant Mini Speed Dome Camera is designed for use in high risk applications in and situations where there is risk of vadalism to the camera. The camera is designed to withstand a blow from a 10 pound sledgehammer. It offers super high resolution 500 TVL images from its Sony 1/3" Super HAD CCD sensor and X-vision Pixel+ Varifocal Lens which allows easy selection of the optimum viewing angle required during installation, and offers panning and tilting with 3x digital zoom for watching large areas or picking out areas of interest. The pan tilt zoom function can be controlled by Pelco D compatible DVRs or camera controllers. It is designed for internal or external use and can be ceiling mounted as supplied or wall mounted using the optional wall bracket.

Features

- Super High Resolution CCD sensor provides very good quality Colour images in low light conditions of 0.1 lux or above
- Discreet styling for unobtrusive low profile use
- Tamper resistant and easy to clean as all moving parts are behind the dome cover
- Vandal resistant for use in areas where the camera is vunerable to vandalism
- Sony 1/3" Super HAD CCD image sensor for 500 TVL resolution images and 0.1 lux low light sensitivity
- X-vision IXC1 Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Back Light Compensation, Low Smear, Edge Enhancement and Zero Colour Rolling
- X-vision Pixel+ Varifocal 4.0 to 9.0mm Auto Iris lens with 30 to 64° viewing angle for super sharp images and easy selection of the optimum viewing angle during installation
- 3x Digital Zoom
- 340° Panning & 90° Tilting at 4 to 40° per second
- 64 Preset positions with Guard Tour function
- RS485 (Pelco D protocol) control of Pan Tilt Zoom and Focus is possible by any compatible DVR or Camera Controller
- Durable Corrosion Proof Metal Casing designed for Internal or External use and Ceiling mounting as supplied or wall mounting with the optional wall bracket
- 1 Year Manufacturers Warranty

Specifications

Picture Type:	Colour
Image Sensor:	Sony 1/3" Super HAD CCD
DSP:	X-vision IXC1
Resolution:	500 TVL
Lens Viewing Angle:	30 to 64°
Infra Red nightvision:	No
Minimum Illumination:	0.1 Lux
Audio:	No
Operating Voltage:	12V DC 1000mA
Suggested Power Supply:	12V DC 3500mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

XVISZCAM Wall Bracket

This wall bracket allows the camera to be walll mounted and features cable management, making the camera tamperproof.

Model: **ZCAMXWB**

Standard Controller

The Standard Controller features a speed sensitive joystick and will allow you to pan, tilt, zoom the camera, auto pan the camera, set up and select presets and control the camera settings. It will not let you set up a guard tour and zoom control is via buttons and will only control Pelco D cameras.

Model: **XSD2DC**

Speed Dome/DVR Controller

Can control up to 223 Speed Domes, connected to DVR and Speed Domes by RS485 cable. The unit features a 3D Joystick which can control pan tilt and zoom and can control and setup all available features on X-vision Pan Tilt Zoom cameras and Speed Domes.

Model: **XDVR2PROKB**

Controller

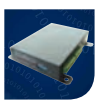
This following controller can be connected to up to 64 cameras and will allow you to Pan, Tilt, Zoom the XVISZCAMX.

Model: **XSD1DC**

Advanced Controller

In addition to the above the Advanced Controller allows you to zoom the camera by simply twisting the joystick clockwise to zoom in and anti-clockwise to zoom out. It will also let you setup a preset guard tour, and will control up to 64 Pelco D & P cameras.

Model: **XSD3DC**



8 Alarm Input Interface

Allows the connection of up to 8 alarm inputs (such as PIR movment sensors) to the Speed Dome. Each alarm input can be set to trigger a different preset position, so that the dome can be automatically triggered by alarm inputs to watch up to 8 different areas.

Model: **XSDA**

Designed for **High Risk** Applications

Key Features

CCD 1/4"

550 TVL

1-78° Lens

0.01 Lux

Weather Resistant

XSD27ZDN2

Colour 550 TVL Sony 1/4" Super HAD CCD Speed Dome with 270x Zoom

The XSD27ZDN2 Colour Speed Dome with 270x Zoom is designed for use in high risk applications and can be panned, tilted and zoomed in seconds to the view you require. Features pan tilt speeds of up to 120° per second and a 27x Optical+10x Digital (270x) Zoom Lens, Super Dynamic Range for excellent performance when looking at difficult lighting scenes such as reading a cars numberplate when the headlights are on and Day/Night function (with mechanical filter, which eliminates focus shift) for use in low light down to 0.01 lux and with Infra Red lamps. It offers super high resolution 550 TVL images from its Sony 1/4" Super HAD CCD sensor and can be controlled by Pelco D or P compatible DVRs and Camera Controllers. Available with a variety of brackets and housings the camera is designed for wall mounting externally as supplied and can also be ceiling mounted, corner mounted and pole mounted externally and ceiling and flush mounted internally.

Features

- Dual mode Super High Resolution CCD sensor provides very great quality Colour images in low light conditions of 0.01 lux or above and B/W images in low light conditions below 0.5 lux and in complete darkness with the addition of Infra Red lighting
- Mechanical IR filter prevents focus shift in B/W mode
- Ideal for use in difficult lighting scenes such as reading a cars numberplate when the headlights are on
- Sony 1/4" Super HAD CCD image sensor for 550 TVL resolution images and 0.01 lux low light sensitivity
- X-vision IXC1HQDN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Multi Zone Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling, Super Dynamic Range and Day/Night
- 3.25 to 88.0mm (1° to 78° viewing angle) Auto Iris Auto Focus lens with 27x Optical Zoom
- 10x Digital Zoom for extra detail, for a total combined optical/digital zoom of 270x
- Pan Tilt function, for 360° panning and 120° tilting
- Proportional control gives pan and tilt speeds from 0.3 to 120° per second, with presets responding at up to 120° per second
- Auto panning function
- Auto flip function
- 64 Preset positions with Guard Tour function
- RS485 (Pelco D or P protocol) control of Pan Tilt Zoom, Focus and Camera settings is possible, by any compatible DVR or Camera Controller
- Designed for wall mounting externally as supplied, however a full range of mounting equipment is available for mounting the unit externally on a pole, ceiling or corner, and internally on a ceiling (both surface and flush fitting)
- 1 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/4" Super HAD CCD
DSP:	X-vision IXC1HQDN
Resolution:	550 TVL
Lens Viewing Angle:	1 to 78°
Infra Red Nightvision:	Optional
Minimum Illumination:	0.01 Lux (0 lux with IR)
Audio:	No
Operating Voltage:	12V DC 2000mA
Suggested Power Supply:	12V DC 3500mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Controller

This following controller can be connected to up to 64 cameras and will allow you to Pan, Tilt, Zoom the XVISZCAMX.

Model: **XSD1DC**

Standard Controller

The Standard Controller features a speed sensitive joystick and will allow you to pan, tilt, zoom the camera, auto pan the camera, set up and select presets and control the camera settings.

Model: **XSD2DC**

Advanced Controller

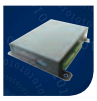
The Advanced Controller allows you to zoom the camera by simply twisting the joystick clockwise to zoom in and anti-clockwise to zoom out. It will also let you setup a preset guard tour, and will control up to 64 Pelco D & P cameras.

Model: **XSD3DC**

Speed Dome/DVR Controller

Can control up to 223 Speed Domes, connected to DVR and Speed Domes by RS485 cable. The unit features a 3D Joystick which can control pan tilt and zoom and can control all features.

Model: **XDVR2PROKB**



8 Alarm Input Interface

Allows the connection of up to 8 alarm inputs (such as PIR movment sensors) to the Speed Dome. Each alarm input can be set to trigger a different preset position.

Model: **XSDA**

Internal Flush Mount Housing

Allows the camera to be flush mounted in to a suspended ceiling. Makes the camera more attractive and allows it to blend in and look less obtrusive.

Model: **XSDFM2**

Ceiling Bracket

Allows the XSD27ZDN2 to be mounted on a ceiling.

Model: **XSDCM**

Pole Mount Adaptor

Allows the XSD27ZDN2 to be mounted on a pole.

Model: **XSDPM**

Corner Mount Bracket

Allows the XSD27ZDN2 to be mounted on the corner of a building.

Model: **XSDCB**

Designed for **High Risk** Applications

Key Features

CCD 1/4"

520 TVL

2-60° Lens

0 Lux

Weather Resistant

XSD22ZIR

Colour 520 TVL Sony 1/4" Ex View CCD Speed Dome with 220x Zoom with 50m IR Nightvision

The XSD22ZIR Colour Speed Dome with 220x Zoom is designed for use in high risk applications and can be panned, tilted and zoomed in seconds to the view you require. Features pan tilt speeds of up to 120° per second and a 22x Optical+10x Digital (220x) Zoom Lens, Super Dynamic Range for excellent performance when looking at difficult lighting scenes such as reading a cars numberplate when the headlights are on and Day/Night function with 50 metres IR nightvision for vision in complete darkness. Above 50 metres the camera's Digital Slow Shutter technology allows it to operate in low light down to 0.002 lux. Additional features include Return To Home position Alarm Input and Anti Vibration feature for steady pictures even in windy conditions. It offers super high resolution 520 TVL images from its Sony 1/4" Ex View CCD sensor and can be controlled by Pelco D or P compatible DVRs and Camera Controllers. Available with a variety of brackets the camera is designed for external use and supplied with a wall bracket as standard but can also be ceiling mounted, corner mounted and pole mounted. It is perfect for applications where identification quality images both day and night and in complete darkness are required.

Features

- Dual mode Super High Resolution CCD sensor provides very good quality Colour images in low light conditions of 0.002 lux or above and B/W images in low light conditions below 0.002 lux and in complete darkness.
- Integrated Long Life Infra Red LEDs turn on automatically when the camera switches to B/W mode & provide up to 50m night vision
- Light emitted from the Infra Red LEDS is not visible to the human eye, however to the camera the light is clearly visible
- Ideal for use in difficult lighting scenes such as reading a cars numberplate when the headlights are on
- Sony 1/4" Ex View CCD image sensor for 520 TVL resolution images and 0.002 lux low light sensitivity
- X-vision IXC1HQDN Digital Signal Processing (DSP) chip which has been optomised for internal or external viewing and features Automatic Gain Control, Automatic Electronic Iris, Auto White Balance, Multi Zone Back Light Compensation, Low Smear, Edge Enhancement, Zero Colour Rolling, Super Dynamic Range and Day/Night
- 3.95 to 85.8mm (2° to 60° viewing angle) Auto Iris Auto Focus lens with 22x Optical Zoom
- 10x Digital Zoom for extra detail, for a total combined optical/digital zoom of 220x
- Pan Tilt function, for 360° panning and 120° tilting at up to 120° per second
- Auto panning function
- Auto flip function
- 64 Preset positions with Guard Tour function
- RS485 (Pelco D or P protocol) control of Pan Tilt Zoom, Focus and Camera settings is possible, by any compatible DVR or Camera Controller
- Designed for wall mounting externally as supplied, however a full range of mounting equipment is available for mounting the unit on a pole, ceiling or on the corner of a building
- 1 Year Manufacturers Warranty

Specifications

Picture Type:	Day/Night (B/W & Colour)
Image Sensor:	Sony 1/4" Ex View CCD
DSP:	X-vision IXC1HQDN
Resolution:	520 TVL
Lens Viewing Angle:	2 to 60°
Infra Red Nightvision:	50 metres
Minimum Illumination:	0 Lux / 0.002 Lux
Audio:	No
Operating Voltage:	12V DC 3000mA
Suggested Power Supply:	12V DC 3500mA
Mounting:	Wall/Ceiling
Weatherproofing:	Yes
Dimensions (WxHxD):	51x44x62mm

Connections

Video Output:	BNC Socket
Audio Output:	N/A
Power Input:	DC Socket

Controller

This following controller can be connected to up to 64 cameras and will allow you to Pan, Tilt, Zoom the XVISZCAMX.

Model: **XSD1DC**

Standard Controller

The Standard Controller features a speed sensitive joystick and will allow you to pan, tilt, zoom the camera, auto pan the camera, set up and select presets and control the camera settings.

Model: **XSD2DC**

Advanced Controller

The Advanced Controller allows you to zoom the camera by simply twisting the joystick clockwise to zoom in and anti-clockwise to zoom out. It will also let you setup a preset guard tour, and will control up to 64 Pelco D & P cameras.

Model: **XSD3DC**

Speed Dome/DVR Controller

Can control up to 223 Speed Domes, connected to DVR and Speed Domes by RS485 cable. The unit features a 3D Joystick which can control pan tilt and zoom and can control all features.

Model: **XDVR2PROKB**

8 Alarm Input Interface

Allows the connection of up to 8 alarm inputs (such as PIR movment sensors) to the Speed Dome. Each alarm input can be set to trigger a different preset position.

Model: **XSDA**

Ceiling Bracket

Allows the XSD27ZDN2 to be mounted on a ceiling.

Model: **XSDCB**

Pole Mount Adaptor

Allows the XSD27ZDN2 to be mounted on a pole.

Model: **XSDPM**

Corner Mount Bracket

Allows the XSD27ZDN2 to be mounted on the corner of a building.

Model: **XSDCM**

The X-vision range of monitors are all designed to offer the best possible picture resolution and the sharpest images. Three different types are available, CRT, which offer good image quality and are the low cost option, LCD, which offer excellent resolution in a small form factor for better aethestics and are lightweight and small enough to be used on a desk, and Plasma, our largest screens at 42", for use in situations where a large number of cameras are being viewed as a multiscreen view for long periods of time, such as in a control room. All X-vision monitors will operate with both Colour and B/W CCTV equipment and feature audio as standard.

Comparison Table

Model Number	XCM14	XCM21	XVIS5LCD	XVIS8LCD	XLCD17	XLCD19	PMP42SX
Picture							
Designed for	Medium to High Risk Applications	High Risk Applications	High Risk Applications	Medium to High Risk Applications	High Risk Applications	High Risk Applications	High Risk Applications
Size:	14"	21"	5"	8"	17"	19"	42"
Screen Type:	CRT	CRT	LCD	LCD	LCD	LCD	Plasma
Resolution	450 TVL	600 TVL	670 TVL	450 TVL	800 TVL	800 TVL	600 TVL
BNC (Video) Inputs	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SVHS (Video) Inputs	Yes	Yes	No	No	Yes	Yes	Yes
Scart (Video) Inputs	No	No	No	No	No	No	Yes
VGA (Video) Inputs	No	No	No	No	Yes	Yes	Yes
Audio Input	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Loopthroughs	Yes	Yes	No	No	Yes	Yes	No
Remote Control	No	No	Yes	Yes	No	No	Yes
Measurements (WxHxD)	365x343x318mm	500x490x460mm	148x125x30mm	215x165x32mm	429x363x60mm	458x372x84mm	1031x634x79mm
Weight	16Kg	28Kg	1Kg	1.5Kg	5Kg	8Kg	30Kg
Warranty	2 Year	2 Year	1 Year	1 Year	1 Year	1 Year	1 Year
Price	$	$	$	$	$$	$$	$$$

Designed for **Medium to High Risk** Applications

Key Features

CRT

450 TVL

Yes

14"

BNC SVHS

XCM14

Professional 14" Monitor

The XCM14 is a professional grade high resolution Colour CCTV monitor designed for medium to high risk applications and featuring 450 TVL resolution and a compact 14" screen. It has a variety of inputs including audio and SVHS and loopthrough connectors. It has a low radiation CRT which is specially designed for CCTV images and is metal cased for extra durability.

Features

- Professional grade CCTV monitor
- High resolution low radiation 14" CRT for excellent 450 TVL image quality
- Integrated high fidelity speaker for good quality audio
- Loopthrough connections and automatic impedance matching ensures perfect picture quality even when connecting up to 3 additional slave monitors
- Choice of BNC and SVHS video inputs for best picture quality
- Metal cased for extra durability
- 2 Year Manufacturers Warranty

Specifications

Size:	14"
Screen Type	CRT
Resolution:	450TVL
Remote Control:	No
Dimensions (WxHxD):	365x343x318mm
Weight:	16Kg

Connections

Video Out:	Yes- BNCSocket No- VGA Socket Yes- SVHS Socket
Audio Out:	Yes- Phono Socket
Loopthroughs:	Yes- Video (BNC Socket) Yes- Audio (BNC Socket)

Designed for **High Risk** Applications

Key Features

CRT

600 TVL

Yes

21"

BNC SVHS

XCM21

Professional 21" Monitor

The XCM21 is a professional grade high resolution Colour CCTV monitor designed for high risk applications and featuring 600 TVL resolution and a large 21" screen. It has a variety of inputs including audio and SVHS and loopthrough connectors. It has a low radiation CRT which is specially designed for CCTV images and is metal cased for extra durability.

Features

- Professional grade CCTV monitor
- High resolution low radiation 21" CRT for excellent 600 TVL image quality
- Integrated high fidelity speaker for good quality audio
- Loopthrough connections and automatic impedance matching ensures perfect picture quality even when connecting up to 3 additional slave monitors
- Choice of BNC and SVHS video inputs for best picture quality
- Metal cased for extra durability
- 2 Year Manufacturers Warranty

Specifications

Size:	21"
Screen Type	CRT
Resolution:	600TVL
Remote Control:	No
Dimensions (WxHxD):	500x490x460mm
Weight:	28Kg

Connections

Video Out:	Yes- BNC Socket No- VGA Socket Yes- SVHS Socket
Audio Out:	Yes- Phono Socket
Loopthroughs:	Yes- Video (BNC Socket) Yes- Audio (BNC Socket)

Designed for **High Risk** Applications

Key Features

LCD

670 TVL

Yes

5"

BNC

XVIS5LCD

Professional 5" CCTV LCD Monitor

The XVIS5LCD Colour monitor is the smallest monitor in the range, and is ideal for use in areas where space is limited or for wall mounting. The crystal clear 5" TFT LCD features 670 TVL resolution making it suitable for use in high risk applications. It features video and audio inputs and can be powered by 12V DC or AC power via a 12V DC 1.25A Power Supply. In addition to this it offers a 4:3 ratio picture which is recommended for CCTV applications and also features vertical and horizontal mirror functions for the picture allowing the LCD to be ceiling mounted or used as a reversing monitor if required.

Features

- 4:3 screen ratio 5" LCD recommended for CCTV applications
- High resolution 670 TVL image quality
- Vertical and Horizontal Mirror function for mounting the LCD on a ceiling or using as a reversing monitor
- Integrated high fidelity speaker for good quality audio
- Lightweight compact design
- Can be wall or ceiling mounted
- Desk stand supplied
- Supplied with IR Remote Control
- Operate on 12V DC or AC power using a 12V DC 1.25A power supply
- 1 Year Manufacturers Warranty

Specifications

Size:	5"
Screen Type	LCD
Resolution:	670TVL
Remote Control:	YES
Dimensions (WxHxD):	148x125x30mm
Weight:	1Kg

Connections

Video Out:	Yes- BNCSocket No- VGA Socket NO- SVHS Socket
Audio Out:	Yes- Phono Socket
Loopthroughs:	No- Video (BNC Socket) No- Audio (BNC Socket)

Designed for **Medium to High Risk** Applications

Key Features

LCD

450 TVL

Yes

8"

BNC

XVIS8LCD

Professional 8" CCTV LCD Monitor

The XVIS8LCD Colour monitor combines the small form factor of an LCD monitor with the large screen size of a CRT monitor. It features an 8" TFT LCD which generates 450 TVL making it ideal for medium to high risk applications. The compact design is ideal for use in areas where space is limited or for wall mounting. It features 2 video and audio inputs and can be powered by 12V DC or AC power via a 12V DC 3.5A Power Supply. In addition to this it offers a 4:3 ratio picture which is recommended for CCTV applications and also features vertical and horizontal mirror functions for the picture allowing the LCD to be ceiling mounted or used as a reversing monitor if required.

Features

- 4:3 screen ratio 8" LCD recommended for CCTV applications
- High resolution 450 TVL image quality Vertical and Horizontal Mirror function for mounting the LCD on a ceiling or using as a reversing monitor
- Features 2 video and audio inputs for flexible use
- Integrated high fidelity speaker for good quality audio
- Lightweight compact design
- Can be wall or ceiling mounted
- Desk stand supplied
- Supplied with IR Remote Control
- Operate on 12V DC or AC power using a 12V DC 3.5A power supply
- 1 Year Manufacturers Warranty

Specifications

Size:	8"
Screen Type	LCD
Resolution:	450TVL
Remote Control:	Yes
Dimensions (WxHxD):	215x165x32mm
Weight:	1.5Kg

Connections

Video Out:	Yes- BNCSocket No- VGA Socket NO- SVHS Socket
Audio Out:	Yes- Phono Socket
Loopthroughs:	No- Video (BNC Socket) No- Audio (BNC Socket)

Designed for **High Risk** Applications

Key Features

LCD

800 TVL

Yes

17"

BNC SVHS VGA

XLCD17

Professional 17" CCTV LCD Monitor

The XLCD17 Colour monitor is a state of the art 17" LCD monitor designed for high risk applications and offering up to 800 TVL resolution images. It has a variety of inputs including 2 BNC inputs, an SVHS input and a VGA input for up to 1280x1024 pixel viewing. The high brightness LCD is specially designed for CCTV images and incorporates a special filter for extra definition when used with CCTV signals.

Features

- Specially designed for CCTV use
- High Brightness 17" LCD with special filter for excellent 800 TVL resolution images
- Integrated high fidelity speakers for good quality audio
- 2 switchable BNC inputs and an SVHS input for best picture quality and flexibility
- 2 BNC and 1 SVHS loopthrough connections connecting an additional slave monitor VGA input for resolutions of up to 1280x1024 pixels
- Built in switch mode power supply for flexible operating voltage of 90 to 250V AC and excellent reliability
- 1 Year Manufacturers Warranty

Specifications

Size:	17"
Screen Type	LCD
Resolution:	800TVL
Remote Control:	No
Dimensions (WxHxD):	429x363x60mm
Weight:	5Kg

Connections

Video Out:	Yes- BNCSocket Yes- VGA Socket Yes- SVHS Socket
Audio Out:	Yes- Phono Socket
Loopthroughs:	Yes- Video (BNC Socket) Yes- Audio (BNC Socket)

Designed for **High Risk** Applications

Key Features

LCD

800 TVL

Yes

19"

BNC SVHS VGA

XLCD19

Professional 19" CCTV LCD Monitor

The XLCD19 Colour monitor is a state of the art 19" LCD monitor designed for high risk applications and offering up to 800 TVL resolution images. It has a variety of inputs including 2 BNC inputs, an SVHS input and a VGA input for up to 1280x1024 pixel viewing. The high brightness LCD with wide contrast range is specially designed for CCTV images and incorporates a special filter for extra definition when used with CCTV signals.

Features

- Specially designed for CCTV use
- High Brightness 19" LCD with special filter for excellent 800 TVL resolution images
- Wide Contrast Range for excellent colour depth and reproduction
- Integrated high fidelity speakers for good quality audio
- 2 switchable BNC inputs and an SVHS input for best picture quality and flexibility
- 2 BNC and 1 SVHS loopthrough connections connecting an additional slave monitor VGA input for resolutions of up to 1280x1024 pixels
- Built in switch mode power supply for flexible operating voltage of 90 to 250V AC and excellent reliability
- 1 Year Manufacturers Warranty

Specifications

Size:	19"
Screen Type	LCD
Resolution:	800TVL
Remote Control:	No
Dimensions (WxHxD):	458x372x84mm
Weight:	8Kg

Connections

Video Out:	Yes- BNC Socket Yes- VGA Socket Yes- SVHS Socket
Audio Out:	Yes- Phono Socket
Loopthroughs:	Yes- Video (BNC Socket) Yes- Audio (BNC Socket)

PMP42SX

Professional 42" Plasma Display

The PMP42SX Colour Plasma Display is recommended for use in control rooms and for long term multi camera viewing and is designed for high risk applications. It offers up to 600 TVL resolution images and has a variety of inputs including, Scart, Video, Audio, SVHS and VGA (which offers up to 1024x768 resolution and a native resolution of 852x480 pixels). It incorporates the latest in plasma technology and offers excellent colour depth and picture brightness. It has built in speakers for audio and is with feet for desk mounting or can be wall mounted using the optional wall bracket.

Features

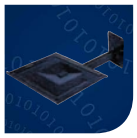
- Incorporates the latest plasma technology for excellent colour depth and brightness making it ideal for CCTV applications
- High resolution plasma panel for up to 600 TVL images and VGA input resolutions of 1024x768 with a native resolution of 840x480 pixels
- Integrated high fidelity speakers for good quality audio
- Features Scart, Video, Audio, SVHS and VGA inputs for versatile connectivity
- Compatible with NTSC, PAL and SECAM signal types for worldwide use
- Built in switch mode power supply for flexible operating voltage of 90 to 250V AC and excellent reliability
- 2 Year Manufacturers Warranty

Specifications

Size:	42"
Screen Type	PLASMA
Resolution:	600TVL
Remote Control:	YES
Dimensions (WxHxD):	1031x634x79mm
Weight:	30Kg

Connections

Video Out:	Yes- BNCSocket Yes- VGA Socket Yes- SVHS Socket
Audio Out:	Yes- Phono Socket
Loopthroughs:	Yes- Video (BNC Socket) Yes- Audio (BNC Socket)

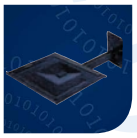


Wall Bracket for 9" to 14" CRT Monitors

The MWB114 bracket allows the XCM14 monitor to be wall mounted

1 Year Manufacturers Warranty

Model: MWB114



Wall Bracket for 20" to 21" CRT Monitors

The MWB121 bracket allows the XCM21 monitor to be wall mounted

1 Year Manufacturers Warranty

Model: MWB121

Ceiling Bracket for 9" to 14" CRT Monitors

The MCB114 bracket allows the XCM14 monitor to be ceiling mounted

1 Year Manufacturers Warranty

Model: MCB114

Ceiling Bracket for 20" to 21" CRT Monitors

The MCB121 bracket allows the XCM21 monitor to be ceiling mounted

1 Year Manufacturers Warranty

Model: MCB121

Wall Bracket for TC15LCD, TC20LCD, XLCD17 and XLCD19 Monitors

The LCDWM bracket allows the XLCD15 and XLCD17 monitors to be wall mounted

1 Year Manufacturers Warranty

Model: LCDWM

Wall Bracket with Tilt adjustment for TC15LCD, TC20LCD, XLCD17 and XLCD19 Monitors

The LCDWMT/S bracket allows the XLCD15 and XLCD17 monitors to be wall mounted and features a tilt adjustment for adjusting the monitor to the optimum viewing angle

1 Year Manufacturers Warranty

Model: LCDWMT/S

Wall Bracket with Swivel & Tilt adjustment for TC15LCD, TC20LCD, XLCD17 and XLCD19 Monitors

The LCDWMPT/S bracket XLCD15 and XLCD17 monitors to be wall mounted & features a swivel adjustment for extra versatility & a tilt adjustment for adjusting the monitor to the optimum viewing angle

1 Year Manufacturers Warranty

Model: LCDWMPT/S

Wall Bracket for PMP42SX

The PDPWM bracket allows the PMP42SX Plasma to be wall mounted

1 Year Manufacturers Warranty

Model: PDPWM

Even with the advent of Digital Recording we continue to manufacture a full range of high quality analogue control equipment, including 4 and 8 Camera Switcher units, a powerful 4 Camera Quad unit and a range of 4, 8 and 16 Camera multiplexers.

New for 2006 is the sub compact XVCR960P, CCTV Recorder which features both Real Time and Time Lapse recording and dual voltage AC & DC voltage operation. All models will operate with both B/W & Colour CCTV Systems and are simple to use whilst offering a host of features.

Model: **PS104/PS108** — **Analogue Control**

PS104/108

4 /8 Camera Switcher Units

The PS104 & PS108 switchers are designed for use with 2 to 8 cameras and allows you to view and record audio and video signals from up to 8 cameras on to a single monitor or recorder. They allow manual selection of each camera or automatic switching of the connected cameras with an adjustable dwell time. They feature a built in power supply & can be directly powered from an AC outlet. Their casing is constructed from metal for extra durability & they are recommended for use in low risk applications.

Features

- Designed for use with 2 to 4 (2 to 8 on PS108) B/W or Colour cameras
- Switches video and audio signals
- Manual selection of each camera and bypassing of each camera is possible
- Features automatic switching with adjustable dwell time
- Industry standard BNC sockets for video and monitor out signals and Phono sockets for audio signals
- Built in power supply and can be directly powered from an AC outlet
- Recommended for use with our XVCR960P CCTV Video Recorder
- 1 Year Manufacturers Warranty

Specifications

Signal Type:	B/W and Colour
Display/Recording Type:	Switching
Camera Inputs:	4 (PS104)
	8 (PS108)
Audio Inputs:	4/8
Monitor Outputs:	1
Operating Voltage:	220-240V AC
Suggested Power Supply:	Supplied

Connections

All connections are industry standard BNC type

Model: **PCQ101E** — **Analogue Control**

PCQ101E

Colour Picture In Picture & Quad Unit

The PCQ101E high resolution colour quad unit is designed for low to medium risk applications and features real time picture in picture, 1 main & 3 small, and quad displays of up to 4 B/W or Colour cameras. It features dual outputs, monitor out which allows you to view a picture in picture, 1 main and 3 small, and quad image, automatic switching of cameras or each camera full screen, and a VCR out which shows a permanent quad image. In addition to this it features digital zoom on playback for watching cameras full screen from recorded quad images, time, date camera title display, alarm inputs and alarm output and is supplied with a 12V DC power supply for powering from an AC socket. The casing is constructed from metal for extra durability.

Features

- Designed for use with up to 4 B/W or Colour cameras
- Compresses the images from the cameras in to a high resolution picture in picture, 1 main and 3 small, and real time quad image, allowing all the cameras to be viewed and recorded together on one monitor or recorder
- Features dual outputs, monitor out which allows you to view a quad image, automatic switching of cameras or each camera full screen, and a VCR out which shows a permanent quad image.
- Digital zoom on playback for watching cameras full screen from recorded quad images
- On screen time, date and camera title display
- 4 alarm inputs and alarm output for connection to sensors and external devices
- Supplied with a high quality power supply for powering from an AC socket
- Industry standard BNC sockets
- Recommended for use with our XVCR960P CCTV Video Recorder
- 1 Year Manufacturers Warranty

Specifications

Signal Type:	B/W and Colour
Display/Recording Type:	Quad
Camera Inputs:	4
Audio Inputs:	0
Monitor Outputs:	2
Operating Voltage:	12V DC 1250mA
Suggested Power Supply:	Supplied

Connections

PCM104A/109A/116A

4/9/16 Channel Colour Duplex Multiplexers

The PCM104A/PCM109A/PCM116 duplex colour multiplexers are recommended for medium risk premises and allow live viewing of up to 16 B/W and colour cameras on one screen, depending on model. The cameras can be viewed full screen, picture in picture or as a quad image on the PCM104A which is designed for use with 4 cameras, and in addition to the is as dual page or 9 camera cameo on the PCM109A which is designed for use with 9 cameras, and as a 16 camera as well on the PCM116A which is designed for 16 cameras. No matter what viewing option you select the caemras are recorded using multiplexer technology on to a video recorder (not supplied) as full screen images, allowing them to be viewed as full screen or multiscreen images during playback. During both live viewing and playback all camera can be digitally zoomed when viewed in full screen. The unit also features on screen time, date and camera title display and main and spot monitor outputs.

Features

- Allows you to view up to 16 cameras on one screen.
- Compatible with both B/W and colour cameras
- Cameras can be viewed full screen, picture in picture or as a quad image on the PCM104A which is designed for use with 4 cameras, and in addition to the is as dual page or 9 camera cameo on the PCM109A which is designed for use with 9 cameras, and as a 16 camera as well on the PCM116A which is designed for 16 cameras
- Duplex multiplexer technology allows the cameras to be recorded on to a video recorder (not supplied) as full screen images, regardless of what live view is selected
- During playback cameras can be viewed as full screen or multiscreen image
- During both live viewing and playback all camera can be digitally zoomed when viewed in full screen.
- Features on screen time, date and camera title display and main and spot monitor outputs.
- Alarm inputs and output for connecting to sensors and external devices
- Industry standard BNC sockets with camera loopthroughs
- Recommended for use with our XVCR960P CCTV Video Recorder
- 1 Year Manufacturers Warranty

Specifications

Signal Type:	B/W and Colour
Display/Recording Type:	Multiplexing
Camera Inputs:	4 (PCM104A)
	9 (PCM109A)
	16 (PCM116A)
Audio Inputs:	0
Monitor Outputs:	1
Operating Voltage:	12V DC 3500Ma
Suggested Power Supply:	Supplied

Connections

All connections are industry standard BNC type

XVCR960P

Professional CCTV Video Recorder

The XVCR960P is a high quality Real Time and Time Lapse Video Recorder recommended for use in medium risk applications and capable of recording for up to 30 hours in real time and 960 hours in time lapse on a single 3 hour video cassette. It features a unique space saving design and is 30% smaller than a tradition time lapse video recorder as it incorporates the latest VCR technology, which also increase reliability by up to 20% when compared to older VCR technology. In addition to this it is supplied with an IR Remote Control for added ease of use and features a Digital Jog Shuttle. The dual voltage design allows the unit to be 12V DC powered for mobile use or AC powered using the power supply supplied.

Features

- Unique space saving design is 30% smaller than a traditional time lapse video recorder as it incorporates the latest VCR technology, which also increase reliability by up to 20% when compared to older VCR technology.
- Good picture quality with up to 30 hours real time recording and up to 960 hours time lapse recording on a single 3 hour video cassette
- Up to 30 hours real time Audio recording
- 4x Dual Azimuth Carbon Coated Recording and Playback Heads for up to 350 TVL recording performance
- On screen Time and Date display added to all recordings, this feature is essential if recording for criminal evidence and prosecution
- Daily and Weekly Timer Recording
- 30 day battery back up for Time Date
- 4 different recording modes, Normal, Alarm, Timer, and Series
- Compatible with all industry standard CCTV equipment including cameras, switchers, quads and multiplexers
- IR Remote Control for ease of use
- Digital Jog Shuttle for accurate control during playback
- Dual voltage design allows the unit to be 12V DC powered for mobile use or AC powered using the power supply supplied.
- 1 Year Manufactuers Warranty

Specifications

Signal Type:	B/W and Colour
Recording Type:	Real Time & Time Lapse
Video Input:	1
Video Output:	1
Audio Output:	1
Audio Input:	1
Operating Voltage:	12V DC 3500Ma or
	220-240V AC
Suggested Power Supply:	Supplied

Connections

DVRs are now the most popular way to manage and record CCTV cameras. They record directly on to Hard Drive and offer high resolution recording up to DVD quality (500+ TVL) and high frame rates up to 400 fps (no of images being recorded a second). DVRs outperform equivalent time lapse video based systems which can only record 200 to 300 TVL (when connected to a quad/multiplexer) and a maximum of 6 fps.

In addition to this DVRs offer advanced features such as, instant searching and playback of recordings, pentaplex control (allowing live viewing, recording, playing back, and networking to take place at the same time), motion detection (this can trigger recording, sound an alarm, or call a phone), remote access (for live viewing and playback of recordings) via a PC on the same local area network or from anywhere in the world via Modem, LAN or the Internet, real time recording of up to 16 cameras with audio, POS/ATM integration (records transactions being put through a till), and many other features.
At X-vision we have been developing DVRs since 1997 and now have one of the most puplular DVR line ups in the word. We offer three different DVR ranges, EDVR which is our entry level range, TDVR, which is the Prfessional range, and XDVR2 which is our Advanced professional, all offer class leading performance and features.

The EDVR range is a low cost dvr range designed for low to medium risk applications and offers near DVD recording quality , quick and easy backing up of reordings to PC and more….

The TDVR range is designed for medium to high risk premises and offers as standard near DVD triplex recording quality, simple backup to USB Memory Stick or CD (depending on model) and Network/Internet access and more…

The XDVR2 range is designed for the most demanding high risk application and offers world class performance and features including DVD quality recording, real time recording of up to 16 cameras and 16 audio inputs, Pentaplex operation, expandable storage up to 20.4TB, DVD Back up, POS/ATM integration and Network/Internet Access.

Comparison Table

Model Number	EDVR4/8/16	TDVR4/8/16	XDVR2	XDVR2RT	XDVRRTA
Picture					
Designed for	Low to Medium Risk Applications	Medium to High Risk Applications	High Risk Applications	High Risk Applications	High Risk Applications
Maximum Storage Space	800 GB	TDVR4: 400 GB TDVR8: 800 GB TDVR16: 800 GB	1200 GB (up to 20.4 TB using optional Additional Storage Trays)	1200 GB (up to 20.4 TB using optional Additional Storage Trays)	1200 GB (up to 20.4 TB using optional Additional Storage Trays)
Camera Inputs	EDVR4: 4 EDVR8: 8 EDVR16: 16	TDVR4: 4 TDVR8: 8 TDVR16: 16	16	16	16
Audio Inputs	EDVR4: 0 EDVR8: 2 EDVR16: 2	1	2	2	16
Display Frame Rate	Real Time	Real Time	Real Time	Real Time	Real Time
Primary Back Up Method	PC (via USB)	TDVR4: USB Memory Stick TDVR8: CD TDVR16: CD	CD	DVD	DVD
Network/Internet Access (Maximum Concurrent Users)	Yes (1)	Yes (1)	Yes (4)	Yes (4)	Yes (4)
Recording Frame rate @ 360x288 (SVHS Quality)	100	100	200	400	400
Recording Frame rate @ 720x288 (Near DVD Quality)	50	50	100	200	200
Recording Frame rate @ 720x576 (DVD Quality)	N/A	N/A	50	100	100
Recording Type	Duplex	Triplex+	Pentaplex	Pentaplex	Pentaplex
Compression	Wavelet+	MJPEG	MPEG4	MPEG4	MPEG4
VGA Out	Optional	Optional	Yes	Yes	Yes
Spot Out	No	No	Yes	Yes	Yes
SVHS Out	No	TDVR4: No TDVR8: Yes TDVR16: Yes	Yes	Yes	Yes
Covert camera Mode	No	No	Yes	Yes	Yes
PTZ/ Speed Dome Control Local/Network	No	TDVR4: No TDVR8: Yes/No TDVR16: Yes/No	Yes/Yes	Yes/Yes	Yes/Yes

EDVR4/8/16

Entry Level 4/8/16 Camera DVRs with PC Backup

The EDVR entry level DVR range is ideal for use as a direct replacement for an existing video recorder and switcher, quad or multiplexer or as the heart of a new CCTV system. They are competitively priced with features you would normally expect to see only on more expensive DVRs. Including superior picture quality, fast frame rates and a USB port for quick and easy backing up to a compatible Windows PC. They are simple to install and use and are designed for use in low to medium risk applications.

Main Features

- Real Time Live Display of up to 16 cameras
- Real Time recording of up to 4 cameras on the EDVR4 and up to 100fps recording EDVR8 and EDVR16
- DVD quality recording
- Supports up to 2 hard drives for 800GB recording capacity
- Duplex operation for multi screen recording & playback independently of live viewing selection
- USB port for backing up to recordings to PC's Hard Drive or PC's CD Writer
- IR Remote Control

Main Features in detail:

Live Viewing Features

Full and Multi Screen Display: During live viewing on the EDVR4 (4 camera version) it is possible to view each camera full screen or all 4 as a quad image, in addition to this on the EDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the EDVR16 (16 camera version) as a 16 camera cameo also.

Real Time Live Display: On all models the cameras are displayed in real time for smooth movement in all displays views and at 720x 576 resolution for excellent quality when in full screen.

Audio: The EDVR8 and EDVR16 have 2 audio inputs which can be monitored live during live viewing.

Standard & VGA Monitor Support: All models have a standard BNC socket for video output to a Tv with Scart or AV inputs or a CCTV monitor, and optional VGA output for connection to a PC monitor by adding the BNCVGA adaptor.

Recording

Real Time Recording The EDVR4 features real time recording at 360x288 resolution allowing it record in real time. The EDVR8 and EDVR16 record at near real time with 100 fps shared between all cameras.

Near DVD Quality Recording: All models have a near DVD quality recording option which is 720x288 resolution recording. In this mode they will record at 50fps shared between all cameras.

Wavelet Compression: The EDVR range uses the unique X-vision Wavelet + compression codec for the highest quality picture recording and lowest file size possible with wavelet compression. Up to 5 different recording qualities and 6 different fps recording speeds can be set allowing the user to adjust the quality and speed to achieve the best balance of recording time and picture quality.

Audio Recording: As well as camera images the EDVR8 and EDVR 16 will also record up to 2 audio inputs.

Duplex Recording: The duplex recording feature of the EDVR range allows the user to select any camera full screen or as a multiscreen layout during live viewing without disturbing the recording of all cameras as full screen images.

Continuous Recording: The standard recording mode of the range is continuous recording, in this mode the DVR will record all the time.

Motion Detection Recording: The range also includes a motion detection recording feature, this allows areas of each cameras view to be highlighted and then the DVR will only record when motion is detected in those areas. Allowing the DVR to record for much longer than continuous recording would achieve.

Event Recording: The range also includes a motion detection recording feature, this allows areas of each cameras view to be highlighted and then the DVR will only record when motion is detected in those areas. Allowing the DVR to record for much longer than continuous recording would achieve.

Main Features in detail: *(continued)*

Timer Recording: The DVR's will allow the user to set up a comprehensive timer schedule so that it only records during the times and days recording is required.

Recording Recycling: Once the hard drive is full the DVR's can be set to rerecord over the hard drive or display a message alerting the user that the hard drive is full.

Recording Times: The following table shows an estimation of the recording times available on the DVR for selected fps and picture quality settings. The times shown are per GB of hard drive space, to calculate the time for the hard drive size that will be fitted in the DVR simply multiply by the hard drive size. (eg. For 80Gb the calculation will be 80 x 1.5 days which is 120 days)

Speed	1 fps						4 fps						12 fps						25 fps						50 fps						100 fps					
Quality	Low		Good		Best		Low		Good		Best		Low		Good		Best		Low		Good		Best		Low		Good		Best		Low		Good		Best	
Resolution (x288)	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720
Hours per Gb	64:19	32:09	32:09	16:04	14:31	7:12	16:04	8:02	8:02	4:24	3:37	1:48	5:22	2:40	2:40	1:21	1:12	0:36	2:34	1:17	1:17	0:37	0:34	0:18	1:17	0:37	0:37	0:19	0:18	0:09	0:37	N/A	0:19	N/A	0:09	N/A

Playback

Full and Multi Screen Playback: During playback on the EDVR4 (4 camera version) it is possible to view each camera full screen or all 4 as a quad image, in addition to this on the EDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the EDVR16 (16 camera version) as a 16 camera cameo also.

Playback Speed Control: The playback speed can be reduced by 16x and increased by 16x for accurate control during playback

Recording Search: Recordings can be quickly and easily found by simply entering the time and date the user is looking for or by selecting from the motion or event recording lists, which list the time date and camera number that was recorded.

Backing Up

USB Back Up to PC: The EDVR range is fitted with a USB port for easy backing up on to a compatible Windows PC. To back up the user has to connect the DVR to a PC and then using the X-vision Windows DVR Back Up software supplied view and select the recordings they wish to back up. These can then be backed up as standard AVI files to the PC's hard drive and copied to CD or DVD if required. The backed up files can be played back on any compatible Windows PC.

Back Up To Video, CD or DVD: The EDVR range can also be connected to a Video Recorder or CD/DVD recorder using the optional MONCL6 lead which allows you to connect a recorder and monitor to the EDVR at the same time. During playback of recordings on the DVR the recorder connected can then record footage being viewed to video cassette, CD or DVD.

Networking/Internet Access

The EDVR range does not have networking/internet access, if you require these features please see the X-vision TDVR Professional DVR range.

Specifications

Format:	PAL/CCIR
HDD:	80, 250, 500, 800GB (IDE)
Compression:	x-vision Wavelet+
Record Modes:	Continuous/Alarm/Timer/Motion
Record Speeds:	100, 50, 25, 12, 8, 4 or 1fps
Playback Speeds:	1/32x to Real Time to 32x
Search Modes:	Search by Time, Date, Alarm, Motion
On Screen Display:	Time, Date, Camera Titles
Security:	Password Protection/Key Lock
Camera Inputs:	4/8/16 BNC Sockets (Video)
Monitor Output:	1 BNC Socket
Display Resolution	720x576 in Real Time
Recording Resolution:	720x288 @ 50 fps
	360x288 @ 100 fps
Alarm Inputs:	4/8/16 sets to activate recording (NO/NC)
Alarm Output::	1 set
Power Source:	240V AC Input Power Supply (Supplied)
Operating temperature:	-10°C to +40°C
Weatherproofing:	IP 30 (indoor use only)
Dimensions(WxHxD):	285 x 45 x 435mm
Warranty:	1 Year

Models

EDVR4	4 Camera Entry Level DVR without Hard Drive
EDVR4/80	4 Camera Entry Level DVR with 80 GB Hard Drive
EDVR4/250	4 Camera Entry Level DVR with 250 GB Hard Drive
EDVR4/500	4 Camera Entry Level DVR with 500 GB Hard Drive
EDVR4/800	4 Camera Entry Level DVR with 800 GB Hard Drive
EDVR8	8 Camera Entry Level DVR without Hard Drive
EDVR8/80	8 Camera Entry Level DVR with 80 GB Hard Drive
EDVR8/250	8 Camera Entry Level DVR with 250 GB Hard Drive
EDVR8/500	8 Camera Entry Level DVR with 500 GB Hard Drive
EDVR8/800	8 Camera Entry Level DVR with 800 GB Hard Drive
EDVR16	16 Camera Entry Level DVR without Hard Drive
EDVR16/80	16 Camera Entry Level DVR with 80 GB Hard Drive
EDVR16/250	16 Camera Entry Level DVR with 250 GB Hard Drive
EDVR16/500	16 Camera Entry Level DVR with 500 GB Hard Drive
EDVR16/800	16 Camera Entry Level DVR with 800 GB Hard Drive

Recommended Accessories:

BNC to VGA Adaptor

The BNCVGA adaptor converts the standard BNC monitor output on the back of the EDVR to VGA, allowing the EDVR range to be connected to a PC monitor.BNC monitor output on the back of the EDVR to VGA, allowing the EDVR range to be connected to a PC monitor.

Model: **BNCVGA**

Video/CD/DVD Recorder Back Up Lead

The MONCL6 lead will connect the EDVR range to a Video or CD/DVD Recorder with Scart, Phono or BNC inputs. Allows simultaneous connection to a standard BNC monitor. Once connected recordings can be backed up to Video Cassette, CD or DVD.

Model: **MONCL6**

Locking Case for EDVR Range

The LCC1 locking case has been specially designed for use with X-vision DVRs and allows the DVR to be locked in a strong metal locable case, whilst allowing good airflow so the unit is not at risk of overheating. Ideal for preventing unauthorised access to the DVR.

Model: **LCC1**

TDVR4/8/16

Triplex 4/8/16 Camera DVRs with Network/Internet Access & Optional CD

The TDVR professional DVR range is designed for medium to high risk applications and offers the perfect balance of cost versus performance. Standard features include DVD quality recording for identification quality images, 100 fps recording for medium to high risk applications, triplex recording for uninterrupted recording even when playing back recordings, networking/internet access for remote viewing of cameras and playback of recordings, IR Remote Control for ease of use and independent backing up of recordings to USB memory stick or CD (depending on model). Powerful, simple to install and use, the TDVR range is our most popular DVR.

Main Features

- Real Time Live Display of up to 16 cameras
- Real Time recording of up to 4 cameras on the TDVR4 (4 camera version) and up to 100 fps recording on the TDVR8 (8 camera version) and TDVR16 (16 camera version)
- DVD quality recording
- Supports up to 400GB recording on the TDVR4 and 800GB on the TDVR8 and TDVR16 and uses MJPEG compression for 3 times the recording time of an equivalent sized Wavelet compression DVR
- Triplex operation for multi screen recording and playback independently of live viewing selection, and playback of recordings whilst continuing to record
- Easy back up to USB Memory Stick on all models and to CD on the TDVR8 and TDVR16
- Password Protection for preventing unauthorised access
- Networking/Internet Access for remote live viewing and playback of camera recordings

Main Features in detail:

Live Viewing Features

Full and Multi Screen Display: During live viewing on the TDVR4 (4 camera version) it is possible to view each camera full screen as a picture in picture or all 4 as a quad image, in addition to this on the TDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the TDVR16 (16 camera version) as a 16 camera cameo also.

Real Time Live Display: On all models the cameras are displayed in real time for smooth movement in all displays views and at 720x 576 resolution for excellent quality when in full screen.

Audio: All models have 1 audio input which can be monitored live during live viewing.

Pan Tilt Zoom & Speed Dome Control: The TDVR range features Pan Tilt Zoom control of Pelco D & P protocol cameras and speed domes.

Standard & VGA Monitor Support: All models have 2 standard BNC sockets for video outputs to 2 CCTV monitors, & optional VGA output for connection to a PC monitor by adding the BNCVGA adaptor. In addition to this the TDVR8 and TDVR16 have an SVHS input for enhanced picture quality when used with SVHS compatible CCTV monitors.

Network/Internet Live Viewing: Live viewing is also possible from a compatible Windows PC which is connected to the TDVR range via a local network or the internet. During live viewing by PC on the TDVR4 (4 camera version) it is possible to view each camera full screen as a picture in picture or all 4 as a quad image, in addition to this on the TDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the TDVR16 (16 camera version) as a 16 camera cameo also.

Recording

Real Time Recording The TDVR4 features real time recording at 360x288 resolution allowing it record in real time. The TDVR8 and TDVR16 record at near real time with 100 fps shared between all cameras.

Removable Hard Drive: The TDVR4 features a removable hard drive which can be swapped for a second drive when full for longer recording times if the recycle recordings function is not used and can also be played back on a PC using the TDVRUSBR PC Playback Adaptor. The TDVR8 and TDVR16 do not have a removable hard drive they have two internal hard drive bays.

Near DVD Quality Recording: All models have a near DVD quality recording option which is 720x288 resolution recording. In this mode they will record at 50fps shared between all cameras.

MJPEG Compression: The TDVR range uses MJPEG compression for the highest quality picture recording and lower file size when compared with wavelet compression. Recording times are up to 3 times longer than equivalent wavelet times. Up to 4 different recording qualities and 6 different fps recording speeds can be set allowing the user to adjust the quality and speed to achieve the best balance of recording time and picture quality

Audio Recording: As well as camera images the TDVR range will also record 1 audio input.

Triplex Recording: The triplex recording feature of the TDVR range allows the user to select any camera full screen or as a multiscreen layout during live viewing without disturbing the recording of all cameras as full screen images. It also allows the user to playback recordings without having to stop current recordings, so that recordings are not interrupted.

Main Features in detail: *(continued)*

Continuous Recording: The standard recording mode of the range is continuous recording, in this mode the DVR will record all the time.

Motion Detection Recording: The range also includes a motion detection recording feature, this allows areas of each cameras view to be highlighted and then the DVR will only record when motion is detected in those areas. Allowing the DVR to record for much longer than continuous recording would achieve.

Event Recording: The DVR's are fitted with alarm inputs for each camera input which will trigger recording of cameras if the corresponding alarm input is triggered. This allows areas of each cameras view to be highlighted and then the DVR will only record when motion is detected in those areas. Allowing the DVR to record for much longer than continuous recording would achieve.

Timer Recording: The DVR's will allow the user to set up a comprehensive timer schedule so that it only records during the times and days recording is required.

Recording Recycling: Once the hard drive is full the DVR's can be set to rerecord over the hard drive or display a message alerting the user that the hard drive is full.

Network/Internet Recording: Recording is also possible from a compatible Windows PC which is connected to the TDVR range via a local network or the internet.

Recording Times: The following table shows an estimation of the recording times available on the DVR for selected fps and picture quality settings. The times shown are per GB of hard drive space, to calculate the time for the hard drive size that will be fitted in the DVR simply multiply by the hard drive size. (eg. For 80Gb the calculation will be 80 x 1.5 days which is 120 days)

Speed	1 fps						4 fps						12 fps						25 fps						50 fps						100 fps					
Quality	Low		Good		Best		Low		Good		Best		Low		Good		Best		Low		Good		Best		Low		Good		Best		Low		Good		Best	
Resolution (x288)	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720
Hours per Gb	300	150	75	37:30	18:45	9:22	75	37:30	18:45	9:22	4:41	2:20	25	12:30	6:15	3:07	1:33	0:46	12	6	3	1:30	0:45	0:22	6	3	1:30	0:45	0:22	0:11	3	N/A	0:45	N/A	0:11	N/A

Playback

Full and Multi Screen Playback: During playback on the TDVR4 (4 camera version) it is possible to view each camera full screen or all 4 as a quad image, in addition to this on the TDVR8 (8 camera version) the cameras can also be viewed as an 8 camera cameo, and on the TDVR16 (16 camera version) as a 16 camera cameo also.

Playback Speed Control: The playback speed can be reduced by 16x and increased by 32x for accurate control during playback

Recording Search: Recordings can be quickly and easily found by simply entering the time and date the user is looking for or by selecting from the motion or event recording lists, which list the time date and camera number that was recorded.

Network/Internet Playback: Playback of recordings is possible from a compatible Windows PC which is connected to the TDVR range via a local network or the internet.

Backing Up

USB Back Up to PC: The EDVR range is fitted with a USB port for easy backing up on to a compatible Windows PC. To back up the user has to connect the DVR to a PC and then using the X-vision Windows DVR Back Up software supplied view and select the recordings they wish to back up. These can then be backed up as standard AVI files to the PC's hard drive and copied to CD or DVD if required. The backed up files can be played back on any compatible Windows PC.

Back Up To Video, CD or DVD: The EDVR range can also be connected to a Video Recorder or CD/DVD recorder using the optional MONCL6 lead which allows you to connect a recorder and monitor to the EDVR at the same time. During playback of recordings on the DVR the recorder connected can then record footage being viewed to video cassette, CD or DVD.

Networking/Internet Access

The EDVR range does not have networking/internet access, if you require these features please see the X-vision TDVR Professional DVR range.

Specifications

Format:	PAL/CCIR
HDD:	80, 160, 250, 320, 500, 800GB (IDE)
Compression:	x-vision MJPEG
Record Modes:	Continuous/Alarm/Timer/Motion
Record Speeds:	100, 50, 25, 12, 8, 4 or 1fps
Playback Speeds:	1/32x to Real Time to 32x
Search Modes:	Search by Time, Date, Alarm, Motion
On Screen Display:	Time, Date, Camera Titles
Security:	Password Protection/Key Lock
Camera Inputs:	4/8/16 BNC Sockets (Video)
Monitor Output:	1/2 BNC Socket
Display Resolution	720x576 in Real Time
Recording Resolution:	720x288 @ 50 fps 360x288 @ 100 fps
Alarm Inputs:	4/8/16 sets to activate recording (NO/NC)
Alarm Output::	1 set
Power Source:	240V AC Input Power Supply (Supplied)
Operating temperature:	-10°C to +40°C
Weatherproofing:	IP 30 (indoor use only)
Backup Options:	USB Memory Stick/CD
Warranty:	1 Year

Models

TDVR4	4 Camera Professional DVR without Hard Drive
TDVR4/80	4 Camera Professional DVR with 80 GB Hard Drive
TDVR4/160	4 Camera Professional DVR with 160 GB Hard Drive
TDVR4/250	4 Camera Professional DVR with 250 GB Hard Drive
TDVR4/400	4 Camera Professional DVR with 320 GB Hard Drive
TDVR8	8 Camera Professional DVR without Hard Drive
TDVR8/80	8 Camera Professional DVR with 80 GB Hard Drive
TDVR8/250	8 Camera Professional DVR with 250 GB Hard Drive
TDVR8/500	8 Camera Professional DVR with 500 GB Hard Drive
TDVR8/800	8 Camera Professional DVR with 800 GB Hard Drive
TDVR16	16 Camera Professional DVR without Hard Drive
TDVR16/80	16 Camera Professional DVR with 80 GB Hard Drive
TDVR16/250	16 Camera Professional DVR with 250 GB Hard Drive
TDVR16/500	16 Camera Professional DVR with 500 GB Hard Drive
TDVR16/800	16 Camera Professional DVR with 800 GB Hard Drive

Recommended Accessories:

BNC to VGA Adaptor

The BNCVGA adaptor converts the standard BNC monitor output on the back of the TDVR to VGA, allowing the TDVR range to be connected to a PC monitor.

Model: **BNCVGA**

PC Playback Adaptor for TDVR4 Hard Drive

The TDVRUSBR adaptor allows the removable hard drive of the TDVR4 to be played back on any compatible Windows PC. The drive slides out of the TDVR4 and in to the TDVRUSBR so it can be played back off site. A spare Hard Drive caddy is supplied so you can add a hard drive to it and use it as a spare hard drive for the DVR.

Model: **TDVRUSBR**

Locking Case for EDVR Range

The LCC1 locking case has been specially designed for use with X-vision DVRs and allows the DVR to be locked in a strong metal locable case, whilst allowing good airflow so the unit is not at risk of overheating. Ideal for preventing unauthorised access to the DVR.

Model: **LCC1**

XDVR2

Advanced Professional High Speed Pentaplex DVR with Networking/Internet Access & CD/DVD

The XDVR2 advanced professional DVR range sets a new standard in excellence in the world of CCTV. Designed for use in high risk application and where only the best will do. It is based on the best selling XDVR range which was recognised all over the world as being one of the best DVRs on the market and was the DVR of choice for the UKs leading retail chains. In 2004 the X-vision team set a goal of creating the worlds most advanced DVR, 2 years later and the XDVR2 has succeeded in meeting there goal.

It offers real time recording of up to 16 cameras with audio and a massive recording capacity of 1.2 TB (extendable to up to 20.4TB by using up to twelve XDVR2NAS/1600 Additional 1.6TB Storage Trays). It also features DVD quality recording, a built in CD or DVD writer for backing up recordings and mouse control, front panel push button control with jog shuttle, IR remote control or Speed Dome Keyboard control for ease of use. Other unique features in clude easy access to the machine via a network or internet connection by using Internet Explorer, so no additional software needs to be loaded on the client PC accessing the DVRs, automatic email alerts with video clips attached whenever alarm inputs are triggered or motion is detected or video loss for a camera occurs and a full range of accessories to create a fully scalable CCTV system from 1 camera to 256 cameras with POS and Access Control integration if required.

Three versions of the XDVR2 range are available, the XDVR2 which is a 16 camera 200 fps recording unit, the XDVR2RT which is a 16 camera 400 fps recording unit and the XDVR2RTA which is a 400 fps recording unit with 16 audio inputs.

Main Features

Live Viewing Features

Full and Multi Screen Display: During live viewing on all models it is possible to view each camera full screen as a quad image, as a 9 camera cameo and as a 16 camera cameo.

Real Time Live Display: On all models the cameras are displayed in real time for smooth movement in all display views and at 720x 576 resolution for excellent quality when in full screen.

Audio: The XDVR2 and XDVR2/RT have 2 audio inputs which can be monitored live during live viewing. The XDVR2/RTA has 16 audio inputs.

Pan Tilt Zoom & Speed Dome Control: The XDVR2 range features Pan Tilt Zoom and preset setup and recall control of Pelco D & P protocol cameras and speed domes.

Standard & VGA Monitor Support: All models have 3 main monitor outputs which show exactly the same view, which can be live viewing of cameras, either full screen or as multiscreen views, playback of recordings and setup menus. These connections are BNC, SVHS and VGA for connection to PC monitors. In addition to this all models have BNC connection for an additional Call (Spot) monitor which will show only live views of cameras either full screen according to the cameras selected by the user or in an auto sequence. On the XDVR2/RT the Call (Spot) monitor output acts as a 2nd independent main monitor output which can be programmed to show a completely different full screen or multiscreen view from the 1st main monitor output and will also allow the DVR to have a 2nd independent control point for all DVR function if connected to the optional XDVRKB or XDVRPROKB remote keyboards.
Covert Camera Operation

Digital 2x Zoom: Supports 2x Digital zoom during live viewing of a camera full screen for extra detail.

Live Pause: The XDVR2 range features Pan Tilt Zoom and preset setup and recall control of Pelco D & P protocol cameras and speed domes.

Network/Internet Live Viewing: Live viewing is also possible from a compatible Windows PC which is connected to the XDVR2 range via a local network or the internet. During live it is possible to view each camera full screen as a quad image, as a 9 camera cameo and as a 16 camera cameo

Recording

High Speed & Real Time Recording: The XDVR2 range features high speed recording at up to 400 fps. The XDVR2 standard model will record up to 200 fps at 360x288 resolution and the XDVR2RT and XDVR2RTA units will record at up to 400 fps.

DVD Quality Recording: The XDVR range features a DVD quality (720x576 resolution) mode which will record at up to 50 fps on the XDVR2 and 100 fps on the XDVR2RT and XDVR2RTA and a near DVD quality (720x288 resolution) mode which will record at up to 100 fps on the XDVR2 and 200 fps on the XDVR2RT and XDVR2RTA.

Synchronised Audio Recording: The XDVR2 and XDVR2RT will record up to 2 audio inputs, and the XDVR2RTA will record up to 16 audio inputs. Audio recording is synchronised with the video recording which means better recording integrity when being used for evidence purposes.

MPEG4 Compression: The XDVR2 range uses the very latest X-vision MPEG4 based compression for the highest quality picture recording and lowest file size when compared with wavelet and MJPEG compression technolgies. Recording times are 5 to 10 times longer than equivalent MJPEG times. Up to 5 different recording qualities and 8 different fps recording speeds can be set allowing the user to adjust the quality and speed to achieve the best balance of recording time and picture quality.

Main Features in detail: *(continued)*

Triplex Recording: The triplex recording feature of the XDVR2 range allows the user to select any camera full screen or as a multiscreen layout during live viewing without disturbing the recording of all cameras as full screen images. It also allows the user to playback recordings without having to stop current recordings, so that recordings are not interrupted.

Continuous Recording: The standard recording mode of the XDVR2 range is continuous recording, in this mode the DVR will record all the time.

Smart Motion Detection Recording: The range also includes a motion detection recording feature, this allows areas of each cameras view to be highlighted and then the DVR will only record when motion is detected in those areas. Allowing the DVR to record for much longer than continuous recording would achieve. In addition to this the DVR feature dual fps recording, this allows the DVR to record at a one frame rate when motion is not detected (for example 1 fps) and another when motion is detected (for example 25 fps), the dual fps settings can be independently changed for each camera input. It also features a comprehensive motion detection settings screen for each camera input which allows the user to select how much movement is detected before it is deemed a genuine motion, this will help to keep false alarms to a minimum.

Event Recording: The DVR's are fitted with alarm inputs for each camera input which will trigger recording of cameras if the corresponding alarm input is triggered. This allows areas of each cameras view to be highlighted and then the DVR will only record when motion is detected in those areas. Allowing the DVR to record for much longer than continuous recording would achieve. In addition to this the DVR feature dual fps recording, this allows the DVR to record at a one frame rate when an alarm input is not triggered (for example 1 fps) and another when motion is detected (for example 25 fps), the dual fps settings can be independently changed for each camera input.

Pre/Post Motion/Event Recording: The DVR's will record for up to 30 secs before motion is detected or an alarm input is triggered and up to 100 seconds after it has finished, so that there is minimal risk of the DVR missing key events leading up to and after a motion or event triggered recording.

Timer Recording: The DVR's will allow the user to set up a comprehensive timer schedule so that it only records during the times and days recording is required. The schedule includes different recording mode and fps settings for day, night and weekend.

Recording Recycling & Smart Delete Function: Once the hard drive is full the DVR's can be set to rerecord over the hard drive or display a message alerting the user that the hard drive is full. They also feature a Smart Delete function which allows the user to manually delete data before a specific date or only keep data for a set amount of time, for example 30 days.

Automatic Quick Record Setup: To assist in setting up the recording quality and fps settings the DVR features a quick record setup feature, which simply asks the user two questions how many days do you wish to record for and at what quality, it will then adjust the fps rate automatically to achieve your required recording time. The maximum amount of days the DVR has room to record for will depend on the size of hard drive fitted.

Expandable Storage to 20.4 TB: The XDVR2 range has the ability to have its internal storage of 1.2 TB (1200 GB) increased to a total 20.4 TB (20400 GB) using the optional XDVR2NAS/1600 External Storage Trays.

Recording Times: The following table shows an estimation of the recording times available on the DVR for selected fps and picture quality settings. The times shown are per GB of hard drive space, to calculate the time for the hard drive size that will be fitted in the DVR simply multiply by the hard drive size. (eg. For 80Gb the calculation will be 80 x 1.5 days which is 120 days)

Speed	25 fps						100 fps						200 fps						400 fps					
Quality	Low		Good		Best		Low		Good		Best		Low		Good		Best		Low		Good		Best	
Resolution (x288)	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720	360	720
Hours per Gb	5:50	2:20	1:27	1:04	0:50	0:41	1:27	0:35	0:22	0:16	0:12	0:10	0:44	0:17	0:11	0:08	0:06	0:05	0:22	N/A	0:05	N/A	0:03	N/A

Playback

Full and Multi Screen Playback: During playback it is possible to view each camera full screen or as a quad image, 8 camera cameo and 16 camera cameo

One touch search: For quick and easy searching of recordings the DVR will enter the playback and search mode by pressing one button, recordings can be quickly and easily found by simply entering the time and date the user is looking for or by selecting from the motion or event recording lists, which list the time date and camera number that was recorded.

Playback Speed Control: The playback speed can be reduced by 32x and increased by 32x for accurate control during playback, a jog shuttle is also fitted to the DVR for precise control.

Recording Search: Recordings can be quickly and easily found by simply entering the time and date the user is looking for or by selecting from the motion or event recording lists, which list the time date and camera number that was recorded.

Digital 2x Zoom: for seeing extra detail during playback in full screen view, camera images can be 2x digitally zoomed

Network/Internet Playback: Playback of recordings is also possible from a compatible Windows PC which is connected to the XDVR2 range via a local network or the internet.

Backing Up

Back Up to USB Memory Stick: The XDVR2 range is fitted with a USB Memory Stick port for easy backing up. Simply connect a compatible USB Memory Stick to the port, press the one touch backup button, select the recording that needs to be backed up and the unit will back up the recordings as a recording or still image. The backed up files can be played back on any compatible Windows PC.

Back Up To Video, CD or DVD: As well as a USB Memory Stick Port the XDVR2 has a CD writer built in for backing up recordings to CD and the XDVR2RT and XDVR2RTA units have a DVD writer built in for backing up to DVD. To backup simply press the one touch backup button, select the recording that needs to be backed up and the unit will back up the recordings as a recording or still image. The backed up CD/DVD can be played back on any compatible Windows PC.

Back Up via Network/Internet to PC: Backing up is also possible from a compatible Windows PC which is connected to the XDVR2 range via a local network or the internet.

Networking/Internet Access

The XDVR2 range is fitted with a 10/100MB network socket which allows it to be accessed by a Windows PC over a network or internet connection. This then allows the Windows PC to view the cameras live, back up and play recordings. All DVR setup details can also be changed remotely. The DVRs support multi user remote access and a totlal of 4 user can be logged in to the machine at the same time. The remote PC does not need any special software to access the DVR simply use Internet Explorer. To prevent unauthorised access a password is required to access the DVR. There are 2 levels of password, Administrator and User, the Administrator password allows access to the setup options of the DVR and covert cameras, the user password does not.

Additional Features:

True Pentaplex Operation: The XDVR2 range features true Pentaplex operation, which allows the following independent functions to take place simultaneously 1. Local Recording of cameras 2. Local Playback of Cameras 3. Remote Viewing of Cameras 4. Remote Playback of Cameras 5. Remote Backup of Cameras

Automatic Email Alert with Video Footage: Whenever the DVR's detect movement and/or an alarm input is triggered they can send you an email with video footage of the camera input that was triggered. This feature is fully adjustable for each camera input.

Remote Keyboard Support & Mini Matric: Two optional remote keyboards are available for the DVR, a simple one which simply repeats all of the keys on the front panel of the DVR and can be up to 1000 metres away and will control up to 16 XDVR2s and a Speed Dome/DVR Keyboard which will control up to 223 Speed Domes and 16 XDVR2s. In addition to this if the keyboards are connected to an XDVR2RT or XDVR2RTA then the keyboard will have its own independent control over the DVR and its own monitor output from the DVR (similar to a mini matrix).

Easy firmware upgrades via Network/Internet or CD: XDVR2 owners can be sure there DVR is always up to date as it can upgrade its firmware over the Internet, over a network connection or by CD.

Mouse Support: As well as being supplied with an IR Remote Control for ease of use, a USB mouse can be plugged in to the DVR for simple control and programming of the DVR.

RS232 port for POS/ATM integration: The XDVR2 range includes an RS232 port which can be connected to a POS unit such as a cash register or an ATM unit via a third party interface.

Loopouts: All XDVR2 models have camera loopthroughs.

2 Level Password Support: For security the DVR has two password levels, administrator which has access to all the function and set up menus of the DVR and user which hides covert cameras and does not allows access to setup menus.

Specifications

Format:	PAL/CCIR
HDD:	160, 320, 500, 750, 800, 1200GB (IDE)
Compression:	x-vision MPEG4
Record Modes:	Continuous/Alarm/Timer/Motion
Record Speeds:	Maximum 400 fps
Playback Speeds:	1/32x to Real Time to 32x
Search Modes:	Search by Time, Date, Alarm, Motion
On Screen Display:	Time, Date, Camera Titles
Security:	Password Protection/Key Lock
Camera Inputs:	16 BNC Sockets (Video)
Monitor Output:	SVHS, VGA, BNC
Display Resolution	720x576 in Real Time
Recording Resolution:	720x576 @ 50/100 fps
	720x288 @ 100/200 fps
	360x288 @ 200/400 fps
Alarm Inputs:	16 sets to activate recording (NO/NC)
Alarm Output::	1 set
Power Source:	240V AC Input Power Supply (Supplied)
Operating temperature:	-10°C to +40°C
Weatherproofing:	IP 30 (indoor use only)
Backup Options:	CD/DVD
Warranty:	1 Year

Models

XDVR2/160	16 Camera 2 Audio 200 fps Pentaplex DVR with CD Writer & 160GB Hard Drive
XDVR2/500	16 Camera 2 Audio 200 fps Pentaplex DVR with CD Writer & 500GB Hard Drive
XDVR2/1200	16 Camera 2 Audio 200 fps Pentaplex DVR with CD Writer & 1200GB Hard Drive
XDVR2RT/320	16 Camera 2 Audio 400 fps Pentaplex DVR with DVD Writer & 320GB Hard Drive
XDVR2RT/750	16 Camera 2 Audio 400 fps Pentaplex DVR with DVD Writer & 750GB Hard Drive
XDVR2RT/1200	16 Camera 2 Audio 400 fps Pentaplex DVR with DVD Writer & 1200GB Hard Drive
XDVR2RTA/500	16 Camera 16 Audio 400 fps Pentaplex DVR with DVD Writer & 500GB Hard Drive
XDVR2RTA/800	16 Camera 16 Audio 400 fps Pentaplex DVR with DVD Writer & 800GB Hard Drive
XDVR2RTA/1200	16 Camera 16 Audio 400 fps Pentaplex DVR with DVD Writer & 1200GB Hard Drive

Recommended Accessories:

1.0 TB Additional Storage Tray for XDVR2 range

Connects to the Gigabit port on the back of the XDVR2 and expands storage by 1.0 TB (1000GB)

Model: **XDVR2NAS/1000**

1.6 TB Additional Storage Tray for XDVR2 range

Connects to the Gigabit port on the back of the XDVR2 and expands storage by 1.6 TB (1600GB)

Model: **XDVR2NAS/1600**

12 Port Interface for XDVR2NAS

Connects to the Gigabit port on the back of the XDVR2 and allows up to 12 Additional Storage Trays to be added to it, for a maximum recording capacity of 20.4 TB (20400GB)

Model: **XDVR2NAS/SW**

Wired Remote Keyboard for XDVR2 range

Can control up to 16 XDVR2 units, connected to DVR by RS485 cable

Model: **XDVR2KB**

Wired Speed Dome/DVR Controller for XDVR2

Can control up to 16 XDVR2 units and 223 Speed Domes, connected to DVR and Speed Domes by RS485 cable. The unit features a 3D Joystick which can control pan tilt and zoom and can control and setup all available features on X-vision Pan Tilt Zoom cameras and Speed Domes.

Model: **XDVR2PROKB**

Locking Case for EDVR Range

The LCC1 locking case has been specially designed for use with X-vision DVRs and allows the DVR to be locked in a strong metal locable case, whilst allowing good airflow so the unit is not at risk of overheating. Ideal for preventing unauthorised access to the DVR.

Model: **LCC1**

The x-vision PCDVR range of PC based CCTV systems comprise of a Video Capture Card and Software. The Video Capture Card is installed in to a spare PCI slot on any compatible PC, and the software loaded on to the PC, which must be running Windows 2000 or XP.

The PC then becomes a powerful Digital Hard Drive Recorder, that can record up to 32 CCTV cameras at up to 200 fps, and at high resolution directly on to the PC's hard drive. Additionally, it can detect when cameras see movement and send telephone or email alerts to you when this happens and be accessed remotely over a normal telephone line, network, or the internet.

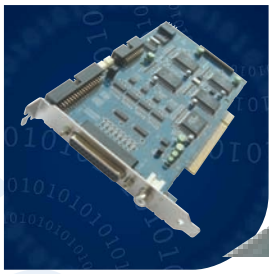
25 fps DVR Card & Software for up to 4 cameras

Plug in to a compatible Windows PC to turn your PC in to a powerful 25 fps Digital Hard Drive Recorder (DVR) for up to 4 cameras.

Features

- Use with up to 4 cameras
- 1 Audio Input
- Includes x-vision PCDVR Software for Windows 2000/XP
- Record & View at up to 25 fps
- Remote Viewing/Playback/Recording via LAN/Internet

Model: **XP4SW25**



100 fps DVR Card & Software for up to 16 cameras

Plug in to a compatible Windows PC to turn your PC in to a powerful 100 fps Digital Hard Drive Recorder (DVR) for up to 16 cameras.

Features

- Use with up to 16 cameras
- Supplied with D Type lead which has 16 BNC sockets on it for connection to CCTV cameras
- Optional 4 Audio Inputs
- Includes x-vision PCDVR Software for Windows 2000/XP
- Record & View at up to 100 fps
- Remote Viewing/Playback/Recording via LAN/Internet

Model: **XP16SW100NA**

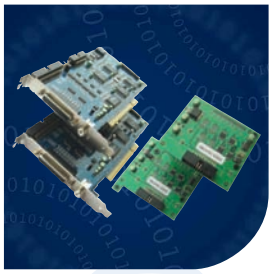
50 fps DVR Card & Software for up to 16 cameras

Plug in to a compatible Windows PC to turn your PC in to a powerful 50 fps Digital Hard Drive Recorder (DVR) for up to 16 cameras.

Features

- Use with up to 16 cameras
- 2 Audio Inputs
- Supplied with D Type lead which has 16 BNC sockets on it for connection to CCTV cameras
- Includes x-vision PCDVR Software for Windows 2000/XP
- Record & View at up to 50 fps
- Remote Viewing/Playback/Recording via LAN/Internet

Model: **XP16SW50**



200 fps DVR Card & Software for up to 32 cameras

Plug in to a compatible Windows PC to turn your PC in to a powerful 200 fps Digital Hard Drive Recorder (DVR) for up to 32 cameras.

Features

- Use with up to 32 cameras
- Supplied with 2x D Type leads which each have 16 BNC sockets on them for connection to CCTV cameras
- Optional 8 Audio Inputs
- Includes x-vision PCDVR Software for Windows 2000/XP
- Record & View at up to 200 fps
- Remote Viewing/Playback/Recording via LAN/Internet

Model: **XP32SW200NA**

Main Features

Live Viewing

- During live viewing the cameras can be viewed full screen individually, set to auto sequence (individually or 4 cameras (quad) at a time or viewed as a 4 (quad), 6, 8, 9, 10, 12, 16 or 32 camera split screen view
- Each split screen view can be customised by simply dragging and dropping cameras to the desired position in the split screen view
- The software icons and menus can be removed by clicking the mouse for true full screen views without Windows or the x-vision software in the view
- Each camera can be given a unique title which appears discreetly in the corner of each camera picture
- A Motion icon in each camera view appears when movement is detected
- If any of the cameras are disconnected or stop functioning a 'Video Lost' message will appear for that camera

Recording

- Choice of 320x240 pixels (Normal Resolution) and 640x480 pixels (High Resolution) recording modes
- Choice of MPEG4 or MJPEG based compression codecs exclusively developed by x-vision for optimum performance
- Records all the cameras at the same time (similar to a multiplexer)without interruption.
- 3 different recording modes:

Motion Detection: To increase the recording time and reduce wasted recordings with no movement taking place, the software analyses the images from the cameras connected and automatically starts recording when it detects that they are seeing movement and stops when they stop seeing movement (because the movement detection is being processed by the software, the cameras do not have to have PIR detectors)

Around the clock: Continuous recording of the cameras, day & night, movement or no movement!

Continuous & Motion: In this mode there will be continuous recording of the cameras at a low frame rate when there is no movement detected, as soon as movement is detected the camera/s that detects movement will switch from low frame rate to high frame rate.

- Schedule: Allows you to setup a weekly, monthly or yearly timer of when you want to record cameras
- For greater control each camera can have its own individual recording mode
- Pre/Post recording feature, the software can be setup to add a few seconds of footage before a camera was activated by motion detection, and/or setup to record for a few seconds after the software stops detecting movement. Giving you extra piece of mind that no movement was missed by the software.
- All the recordings are made digitally on to hard drive and stamped with the camera name, time and date.
- The recordings can be saved as AVI files and are tagged with the camera name, time and date, and are digitally watermarked for extra security

Playback

- During playback the cameras can be viewed individually, as 4 (quad) camera split screen image or all the cameras together
- The software records in Triplex mode, which means that you can playback recordings without having to stop the current recording of cameras
- During playback it is possible to slow down or speed up the playback speed, and listen to audio recordings from the cameras, the cameras can also be played in reverse playback
- During playback still images can be edited (brightness, contrast, sharpness, etc...) printed, or saved to disk, all from within the software
- Recorded clips can also be saved to disk as AVI files and then copied to CD or floppy disk
- Recordings are listed by camera name, date and time, and can be quickly and easily played back with a few clicks of the mouse
- Recordings can also be searched by camera number, date and time. Because the recordings are on hard drive. Searching takes a matter of seconds and is 100% accurate.

Motion Detection & Alert

To minimize false detections, the motion detection feature lets you adjust its sensitivity, so it ignores small movements such as rain, and areas of each cameras view can be masked, so for example it ignores movement on the road in front of your premises, but does not ignore movement on the pavement

Main Features *(continued)*

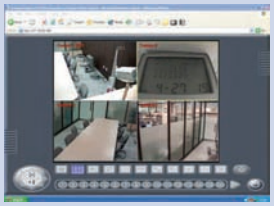
- To minimize false detections, the motion detection feature lets you adjust its sensitivity, so it ignores small movements such as rain, and areas of each cameras view can be masked, so for example it ignores movement on the road in front of your premises, but does not ignore movement on the pavement
- Once movement has been detected as well as recording it the software can call up to 3 telephone numbers and play a prerecorded message, or alternatively send an email with images of the detection attached.
- The software can also sound an alarm through the PC's speakers when movement is detected.

By using the optional Alarm Input/Output/Relay interface, it is also possible to trigger additional devices such as lights and alarms when movement is detected

Remote Access

If you have received notification of movement being detected or you simply want to check on your premises while you are away, you can access the system in the following ways:

- If the PC with the x-vision software on it is connected to a Local Area Network, then you can access the system from any Windows PC/Laptop on the same Local Area Network. With this type of connection you can playback recordings, view the cameras live and record them, have 2 way audio communication with the site and control Pan/Tilt/Zoom cameras.
- If the PC with the x-vision software on it is connected to a Broadband (ADSL) connection, then you can access the system remotely from anywhere in the world via a Windows PC/Laptop with an Internet connection. With this type of connection you can playback recordings, view the cameras live and record them, have 2 way audio communication with the site and control Pan/Tilt/Zoom cameras.
- If the PC with the x-vision software on it is connected to a Broadband (ADSL) connection, then you can access the system remotely from anywhere in the world via a Pocket PC PDA with an Internet connection, or a Pocket PC Mobile Phone with a GPRS connection to the internet. With this type of connection you can view the cameras live.
- If the PC with the x-vision software on it is connected to a standard telephone line via a modem, then you can access the system remotely from anywhere in the world via a Windows PC/Laptop and a modem (or mobile phone with built in modem). To connect you will have to call the telephone number that your x-vision system is connected to. With this type of connection you can only view the cameras live.



Other Features & Specifications

- The following makes and models of Pan Tilt Zoom cameras can be controlled both locally and remotely via the software.

x-vision PCC422 **x-vision XVISZCAM**
x-vision XSD22ZDN **Pelco D Protocol**

- Other camera protocols can be added to the software for free and usually within 14 days, please call sales for details

Security

- Multi level user password structure, every user can have there own user name and password which can be individually tailored to allow them access to individual functions, such as setup features, playback, individual cameras (useful for hiding covert cameras) and remote access.
- Should a camera suffer a loss of picture, detect movement or any of the alarm inputs be triggered the software will alert you by telephone or email.
- Software and Hardware watchdog, if the system detects any problems with your software or hardware, it will restart your machine to try to cure them.

Smart Search

- The smart search function allows you to highlight a portion of the cameras view and search for all movements that took place in that area. This is a very quick and powerful way to search for specific movements, for example, to see who picked up a set of car keys from a desk.

Backing Up Recordings

The software has a backup utility which allows you to copy individual incidents or still images on to removable media such as CD

The software can also be set to automatically backup recordings at scheduled times on to a secondary hard drive or partition

Erasing Recordings

The software can be set to overwrite mode, which means that when the hard drive is full it will automatically start erasing the earliest recordings to make room for the current recordings. In this mode no user intervention is required.

Or can be set to write only. In this mode the software will warn you when the hard drive is full. You can then delete the recordings quickly and easily using the Delete Recordings utility provided, or archive the recordings using the BackUp utility.

2 Way Audio

While watching the cameras remotely over a Local Area Network or a Broadband (ADSL) Internet connection, providing the PC with the x-vision software loaded on it has a microphone and speakers connected and so does the Remote PC, you can have a 2 way conversation

Central Monitoring Software

The x-vision Central Monitoring Station software is supplied free, and incorporates the following great features:

Can view live and playback recordings from up to 100 sites and 3200 cameras

Shows an events list, showing when and why alarm inputs were activated, and allows relay/alarm outputs to be turned on an off

Allows the settings on the remote machine to be configured remotely

For further information about the Central Monitoring Station software please call sales.

Automatic Software Updates & Enhancements

The software is designed to automatically update the x-vision software to the very latest version every time it connects to the Internet, ensuring the system stays up to date. This feature can be turned off if required.

Because the PCDVR is based on Windows, the software can be easily updated without having to buy more hardware, so you can take advantage of future software enhancements..

Data Protection Act Compliance

The two most time intensive and costly guidelines to adhere to in the Data Protection Act, relate to the need keep a recordings log book, and to erase the recording medium before every use. However you will be pleased to here that hard drive based systems such as the x-vision software are exempt from these guidelines as they do this automatically.

Remote Access Speeds

The software is designed to offer a maximum of 25 fps during remote viewing, however this is restricted by network & modem performance. The following rates are based on customer feedback and independent tests.

Over Modem: **1~2 fps per camera**
Over Broadband (ADSL) **4~15 fps per camera**
Over Local Area Network **15~25 fps per camera**

Camera Compatibility

The x-vision cards and software are compatible with all industry standard CCTV cameras, B/W or Colour. For best results we recommend the use of high resolution Colour or Colour IR Day/Night cameras (400+ TVL).

x-vision Cards Technical Specifications

The technical specifications for the cards are as follows:

Image Quality:	320x240 pixels 640x480 pixels
Video Compression:	x-vision MPEG4 based Codec x-vision MJPEG based Codec
Frame Rates:	Viewing: PAL: 25/50/100/200 (depends on model) fps NTSC: 30/60/120/240 (depends on model) fps Viewing: PAL: 25/50/100/200 (depends on model) fps NTSC: 30/60/120/240 (depends on model) fps
Audio:	25 fps cards: 1 Input 50 fps cards: 2 Inputs 100 fps cards: 4 Inputs 200 fps cards: 8 Inputs
Video Inputs:	4/8/16/32 (depends on model) BNC Sockets
Video Format:	PAL or NTSC @ 1.0V p-p

New features are being added all the time and software updates are free, so you can be sure you have always got the latest most up to date version of the software. We welcome customer feedback, the x-vision PCDVR software and DVR cards are amongst the most powerful and innovative in the world and we want to keep it that way, if you have any features that you would like to see in the x-vision software please email the x-vision product development team directly at tech@x-vision.us

Recording Speed & Times:

Hard Drive Space for Recordings

The following chart shows the amount of hard drive space required for recording. The figures are estimations based on movement for 50% of the day and medium quality, actual space required will vary according to how often the cameras detect movement and the quality setting. Once the hard drive is full the system will either warn you or start erasing older recording to make room for new recordings.

Recording Time:	Card Speed:			
	25 fps	**50 fps**	**100 fps**	**200 fps**
24 hours	4.0GB	8.0 GB	16.0 GB	32.0 GB
168 hours (1 Week)	26.0 GB	56.0 GB	112.0 GB	224.0 GB
336 hours (2 Weeks)	66.0 GB	112.0 GB	224.0 GB	448.0 GB
744 hours (31 days/1 Month)	124.0 GB	248.0 GB	496.0 GB	992.0 GB
2208 hours (92 days/3 Months)	368.0 GB	736.0 GB	1472.0 GB	2944.0 GB
8760 hours (365 days/1 Year)	1460.0 GB	2920.0 GB	5840.0 GB	11680.0 GB

Based on 320x240 resolution, at 640x480 resolution without Audio.

Recording Speed & Times:

Recording Speeds

There are 10 different models of x-vision cards, as well as a choice of camera capacity, they are available with a choice of frame rates, these rates relate to the number of images that are captured per second. To record a camera in real time a frame rate of at least 25 fps is required. The table below shows the number of images that will be recorded each second from each camera depending by each model of card, and a comparison with a 24 hour Time Lapse Video Recorder/Multiplexer system.

Type of Recording	No of cameras being recorded:				
Equipment:	2	4	8	16	32
24 hour Time Lapse Video Recorder & Multiplexer	3	0.75	0.375	0.1875	0.0938
XP4SW/25 (4 Camera, 25 fps)	12.5	6.25			
XP16SW/50 (16 Camera, 50 fps)	25	12.5	6.25	3	
XP16SW/100 (16 Camera, 100 fps)	50	25	12.5	6.25	
XP32SW/200 (32 Camera, 200 fps)	100	50	25	12.5	6.25

Based on 320x240 resolution, at 640x480 resolution without Audio.

The x-vision card has 3 different modes of operation for allocating frames to cameras:

- **Motion Activated Automatic Frame Allocation:** In this mode the total frame rate of the card is shared by the number of cameras being recorder. For example there may be 16 cameras connected to the system but only 5 of them have movement, in this mode the 5 active cameras will each share the maximum frame rate available.
- **Priority Mode:** In this mode each camera can be given a low frame rate to record at when there is no movement taking place, and a high frame rate to record at when there is movement. For example, if 16 cameras are connected they can be set to record at 1 fps each, then as a camera picks up movement it will be recorded at a total frame rate of 35 fps, if 2 or more cameras detect movement at the same time then the 35 fps will be shared between them.
- **Fixed Recording:** This is the most popular setting and allows you to set the number of frames each camera will use during recording.

Some examples of fps per camera and there recommended uses are as follows:

FPS Per Camera:	Recommended Use:
1 to 6 fps	Domestic premises and small business applications where it is the movement of people rather than their activities that is being monitored.
6 to 12 fps	Medium to Large businesses, such as supermarkets, nightclubs, bars, hotels, stockrooms etc...
12 to 25 fps	For high risk and speed sensitive applications, such as production lines, large commercial premises, jewellers, car parks etc...

Compatible PC Specifications

The x-vision software and cards are compatible with the following minimum specifications of PC:

Model Number	Minimum Specifications	Notes
25 fps versions:	CPU: Pentium 3, 800 MHz VGA Card: Nvidia 32 MB Geforce 2 or equivalent RAM: 256 MB	Unstable when used with VIA or SIS chipset motherboards, although some customers have said that by installing the latest motherboard drivers (try www.via.com.tw and www.sis.com.tw) they can use the cards/software without any problems, but we cannot guarantee this. Compatible with some AMD Athlon PCs with a similar specification. (Nvidia chipset motherboards seem to be compatible) however we cannot guarantee this since the cards are designed for use with Pentium PCs.
50 fps versions:	CPU: Pentium 4, 1.4 GHz VGA Card: Nvidia 32 MB Geforce 2 or equivalent RAM: 256 MB	Unstable when used with VIA or SIS chipset motherboards, although some customers have said that by installing the latest motherboard drivers (try www.via.com.tw and www.sis.com.tw) they can use the cards/software without any problems, but we cannot guarantee this. Compatible with some AMD Athlon PCs with a similar specification. (Nvidia chipset motherboards seem to be compatible) however we cannot guarantee this since the cards are designed for use with Pentium PCs.
100 fps versions:	CPU: Pentium 4, 1.4 GHz VGA Card: Nvidia 32 MB Geforce 2 or equivalent RAM: 256 MB	Unstable when used with VIA or SIS chipset motherboards, although some customers have said that by installing the latest motherboard drivers (try www.via.com.tw and www.sis.com.tw) they can use the cards/software without any problems, but we cannot guarantee this. Compatible with some AMD Athlon PCs with a similar specification. (Nvidia chipset motherboards seem to be compatible) however we cannot guarantee this since the cards are designed for use with Pentium PCs.
200 fps version:	CPU: Pentium 4, 2.8 GHz (800MHz FSB) VGA Card: Nvidia 64 MB Geforce 4 or equivalent RAM: 512 MB DDR 400	Use Intel 865 or higher chipset motherboard only.

For all versions:

	Hard Drive	10Gb + Space for recordings
Operating system	Windows 2000 or XP Home or XP Professional	
For Telephone Alert & Remote Access over normal telephone lines:	56k Modem (Zyxel or Connexant Chipset recommended)	Software Modems are not compatible.
For Remote Access over Internet:	Broadband (ADSL) connection	
PCI Slots required for 25 fps version:	On Motherboard: 1 On Case: 1	2 if using audio
PCI Slots required for 100 fps version:	On Motherboard: 1 On Case: 1	2 if using audio
PCI Slots required for 200 fps version:	On Motherboard: 2 On Case: 2	4 if using audio

Compatible PC Specifications

4 Input Audio Board for XP16SW100NA

Model: **XP4A**

8 Input Audio Board for XP32SW200NA

Model: **XP8A**

4 Alarm Input & 4 Alarm/Relay Output card for XP4SW25, XP16SW50 & XP16SW100NA

Model: **XPIO**

8 Alarm Input & 8 Alarm/Relay Output card for XP32SW200NA

Model: **XPIO8**

RS232 to RS485 Convertor

Model: **XPRS**

Our Plug & Play cable makes fitting your camera quick and easy, as it carries the picture, sound and power down the same cable. Simply connect one side of the cable to the camera and the other to the Tv, Video or CCTV equipment (Switcher, Quad, Multiplexer, DVR, DVR Card).
The cable is available in 20, 40, 80 and 120 metre lengths and with a choice of connectors, Standard (for connection to CCTV equipment), Scart Plug (for connection to a TV or Video with a Scart socket) and RF Modulator (for connection to a TV or Video with an aerial socket or to an aerial distribution system).
The camera will also need power, however the plug and play cable makes it simple to power the camera, as the power supply simply plugs in to the plug & play cable at the viewing end rather than the camera end. Click on Power Supply in the Recommended Accessories box to see the recommended power supply.

Power Cables

Standard Plug and Play Cable

PNP20 20 metre standard plug & play cable

PNP40 40 metre (2x PNP20) standard plug & play cable

Model: **PNP20/40**

High Resolution Plug and Play Cable

PNP20X 20 metre high resolution plug & play cable

PNP40X 40 metre high resolution plug & play cable

PNP80X 80 metre (2x PNP40X) high resolution plug & play cable

PNP120X 120 metre (3x PNP40X) high resolution plug & play cable

Model: **PNP20/40**

Accessories

Weatherproof Connection Box

Weatherproof connection box recommended for all external connections made between plug & play cables and cameras

Model: **WPB**

Scart Plug to Phono Socket Adaptor

Converts the BNC plug and Phono plug on the plug & play cable to a Scart plug

Model: **SCARTPS**

UHF Modulator

UHF Modulator unit, converts composite video signals to UHF for receiving on a Tv or Video with aerial sockets or for using an aerial distribution system.

Model: **HCV110**

Power Supplies

Single camera 12V DC 300ma power supply

This power supply has a 300mA output and is recommended for use with cameras and accessories requiring up to 200mA.

Model: **TP12300**

Single camera 12V DC 1250ma power supply

This power supply has a 1250mA output and is recommended for use with cameras and accessories requiring up to 1100mA.

Model: **TP121250**

Single camera 12V DC 3500ma power supply

This power supply has a 3500mA output and is recommended for use with cameras and accessories requiring up to 3400mA.

Model: **TP123500**

Multi camera 12V DC 1250ma power supply

The TP121250PNP which has a 1250mA output and is recommended for use with cameras and accessories requiring up to 1100mA

Model: **TP121250PNP**

Multi camera 12V DC 3500ma power supply

The TP123500PNP which has a 3500mA output and is recommended for use with cameras and accessories requiring up to 3400mA.

Model: **TP123500PNP**

Leads/ Connectors

Monitor connecting leads.

MONCL1 1 metre connecting lead.

MONCL2 20 metre connecting lead.

MONCL3 40 metre connecting lead.

Model: **MONCL1/2/ 3**

1 Metre Multiplexer to XVCR960P Lead

Model: **MONCL5**

1 Metre Multiplexer to HCR200 or XDVDRW Lead

Model: **MONCL4**

1 metre SVHS high resolution connecting lead

MONCL1S 1 metre SVHS high resolution connecting lead

MONCL2S 20 metre SVHS high resolution connecting lead

Model: **MONCL1S/2S**

Standard wiring is favoured by installers the world over. It takes longer to set up and run than DIY Plug & Play wiring and requires the installer to put the connectors on the cable However it is more flexible, allowing the cameras to be powered either locally or from another location up to 250m away per camera. We do not recommend the use of this type of cabling by those who are not familiar with CCTV installation, please use DIY Plug & Play wiring if this applies to you.

Power Cables

100 metre roll of RG59B/U in black

RG59BUBL 100 metre roll of RG59B/U in black
RG59BUBL/200 200 metre roll of RG59B/U in black
RG59BUBL/500 500 metre roll of RG59B/U in black

Model: **RG59BUBL**

100 metre roll of DC cable in grey

Model: **DC100C**

100 metre roll of RG59B/U in white

RG59BUWH 100 metre roll of RG59B/U in white
RG59BUWH/200 200 metre roll of RG59B/U in white
RG59BUWH/500 500 metre roll of RG59B/U in white

Model: **RG59BUWH**

305 metre roll of CAT5E (AWG24 rated) UTP cable

Model: **SD100C/305C**

Power Supplies

12V DC 300mA output Power Supply

Model: **TP12300**

12V DC 1250mA output Power Supply

Model: **TP121250**

12V DC 3500mA output Power Supply

Model: **TP123500**

Connectors

BNC Twist On Plug

BNCTO BNC Twist On Plug
BNCTO/40 Pack of 40 BNC Twist On Plugs
BNCTO/100 Pack of 100 BNC Twist On Plugs

Model: **BNCTO/40/100**

BNC Straight Line Connector

Model: **BNCSS**

Phono Socket to BNC Plug adaptor

Model: **PSBNCP**

BNC T type connector,

Model: **BNCTP**

BNC Socket to Phono Plug adaptor

Model: **BNCSPP**

Phono Straight Line Connector

Model: **PSPS**

Power Cables

BNC Plug to BNC plug lead

BB012 1.2 metre BNC Plug to BNC plug lead

BB020 20 metre BNC Plug to BNC plug lead

Model: **BB012/020**

Dual Phono Plug to Dual Phono Plug

PP001 1 metre Dual Phono Plug to Dual Phono plug lead

PP020 20 metre Dual Phono Plug to Dual Phono plug lead

Model: **PP001/020**

Power

DC Plug

Model: **DCP**

1 DC Socket to 5 DC Plugs 30cm lead

Model: **TP1S5P**

DC Socket

Model: **DCS**

20 metre DC Plug to DC socket lead

Model: **DC020**

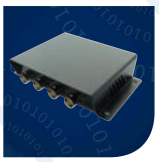
Cat 5 wiring (also known as structured cabling) is increasingly being used as an alternative to standard wiring, the main reason is that many commercial buildings have spare Cat 5 cables running through the building and the majority of new buildings have Cat 5 run throughout the building. Cat 5 wiring uses convertors in place of connectors at the ends of the Cat 5 Cable, these convertors convert picture, power, audio and RS485 data to a format which can be carried by Cat 5 cable and then convert them back again. Cat 5 wiring can be run up to a maximum of 1500 metres. We recommend this type of wiring in situations where Cat 5 cable is already run or where there is a need for very long or versatile cable runs and for future proofing.

Power Cables

Single Input Video Signal/Data to CAT5 converter dongle

This converts the video output of a camera and data line to a CAT 5 compatible signal, allowing it to be run down a single twisted pair of a CAT 5 cable, it can then be converted back at the viewing end by using another C5V or a C5V4.

Model: **C5V**



4 Input Video Signal/Data to CAT5 converter

This converts the video outputs of up to four cameras or 3 cameras and a data line to a CAT 5 compatible signal, allowing four cameras to be run down a single CAT 5 cable, it can then be converted back at the viewing end by using up to four C5V baluns or a single C5V4 balun.

Model: **C5V4**

Single Input Video Signal/Power/Data to CAT5 converter (includes transmitter & receiver)

Converts the video output of a camera to a CAT 5 compatible signal and allows power to be sent down the CAT 5 to power the camera, two baluns are supplied one for the camera end and one for the viewing end which is where the camera power supply needs to be plugged in.

Model: **C5VP**

Single Input Long Range Video/Audio/Data to CAT5 converter. Includes transmitter and receiver units and power supplies

This converts the video and audio output of a camera and data line to a CAT 5 compatible signal, allowing the camera to be run down one CAT 5 cable, two baluns are supplied one for the camera end and one for the viewing end.

Model: **C5VADLR**

Video Signal Corrector for C5V, C5V4 and C5VP

Video Signal Corrector for C5V, C5V4 and C5VP dongles. Helps remove interference from the camera picture that may be picked up by the CAT5 pair from other cables and signals

Model: **C5SC**

Microphones

Internal Camera Microphone

A microphone hidden in a cable. Adds audio to any internal camera with the high quality microphone. Connects to the BNC and DC socket on the camera and adds audio.

Model: **AUDIO**

External Camera Microphone

Weatherproof Connection Box with microphone inside. Adds audio to any external camera, the microphone is located inside the box making it suitable for external use.

Model: **AUDIOEXT**

Video Signal Distributors & Amplifiers

Single camera 12V DC 300ma power supply

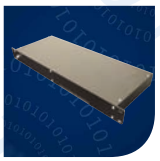
1 Video Input to 4 Video Output Distributor. 1 Year Guarantee

Model: **VIDAMP**

4 Video Input to 8 Video Output Amplifier & Distributor

4 Video Input to 8 Video Output Amplifier & Distributor. All 4 video inputs has 2 video outputs.

Model: **VIDAMPPRO**



8 Video Input to 16 Video Output Distributor

8 Video Input to 16 Video Output Distributor. Each of the 8 video inputs has 16 video outputs.

Model: **VIDAMP16**

Data Protection Act Compliance Products

CCTV In Use A4 Warning Sign

Laminated, Heavy Duty and Weatherproof CCTV In Use A4 Warning Sign.

Model: **WS**

Locking Video Cassette Dispenser

Model: **LVCD**

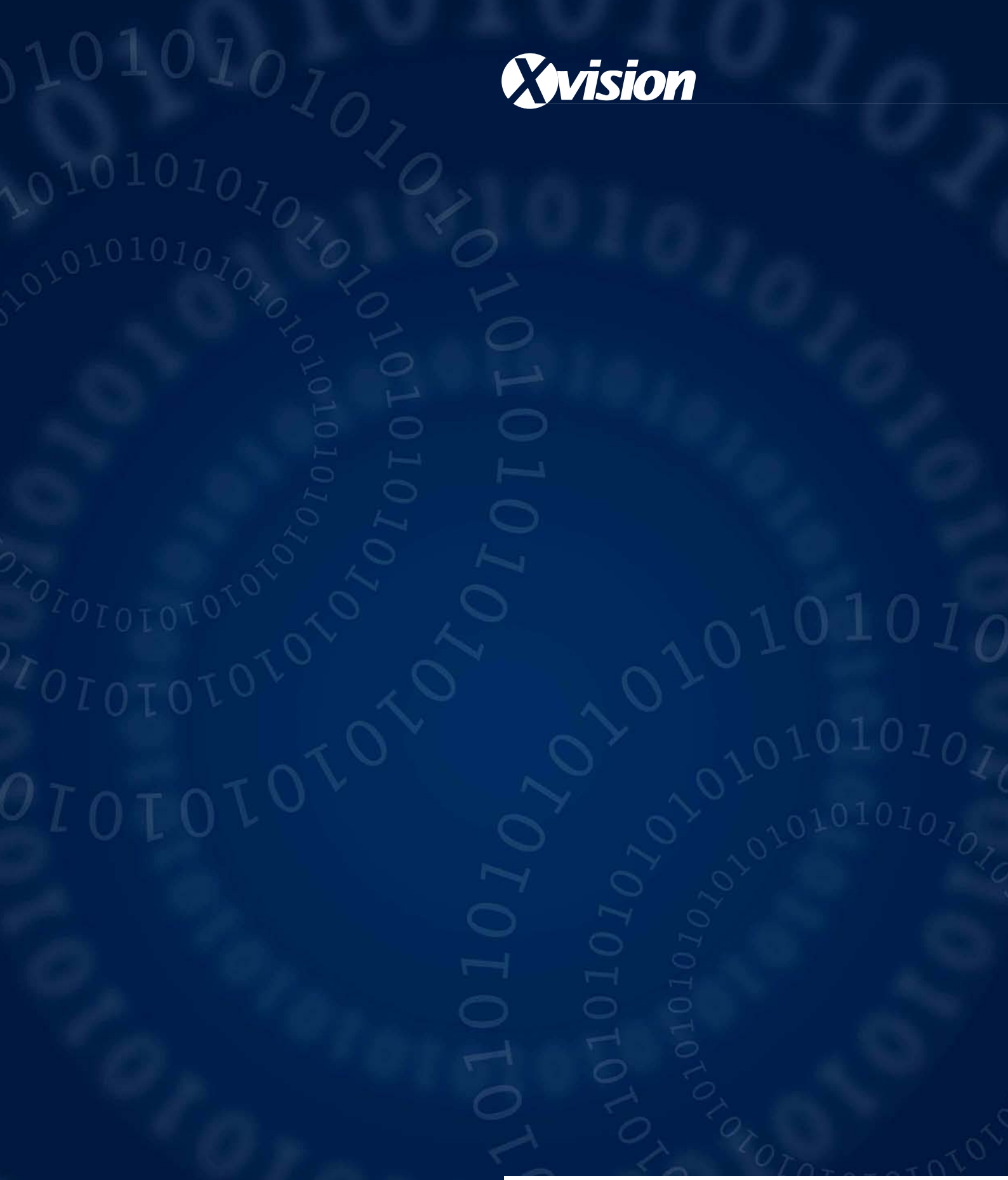
Locking Case

The LCC1 locking case has been specially designed for use with X-vision DVRs and allows the DVR to be locked in a strong metal locable case, whilst allowing good airflow so the unit is not at risk of overheating. Ideal for preventing unauthorised access to the DVR.

Model: **LCC1**

Data Protection Act Compliance Pack

Model: **DPACP**



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